KIC 006464938

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	$R_\star$ ($R_\odot$)	$T_\star$ (K)	R_p ($R_\oplus$)	S_p ($S_\oplus$)
006464938-01	OBS	No	0.568384	131.768636	313.0	1.224	13.5	13.7	5.30	7631	9.74	0.00
006464938-02	OBS	No	0.568364	131.910945	503.7	1.336	16.0	17.5	5.30	7631	13.95	0.00
006464938-03	OBS	No	0.568378	132.048494	153.2	1.500	12.4	-1.0	5.30	7631	6.63	277012.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006464938-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
006464938-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
006464938-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

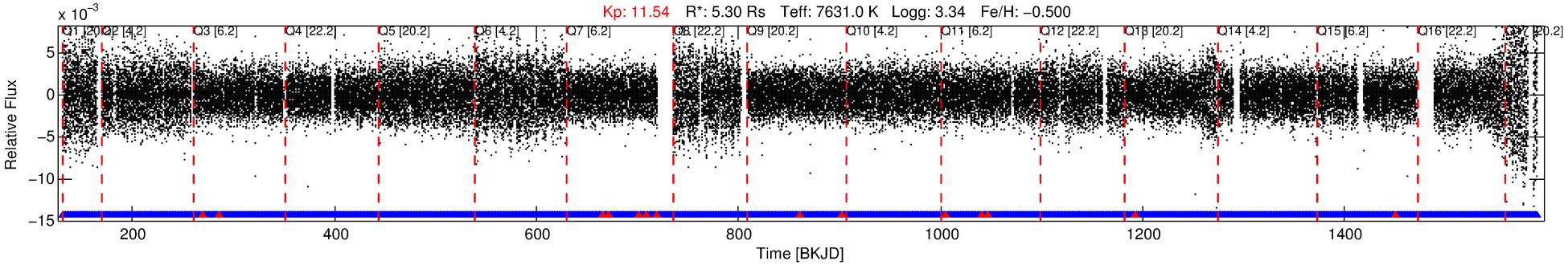
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

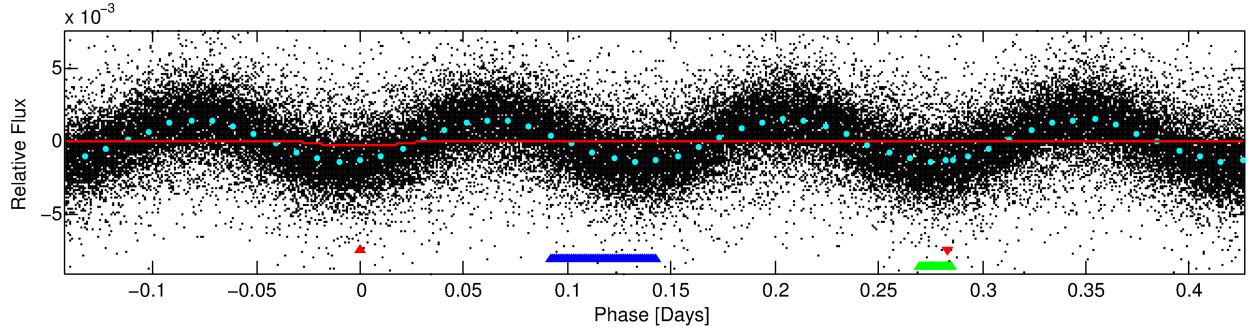
Ephemeris Match Information For 006464938-01

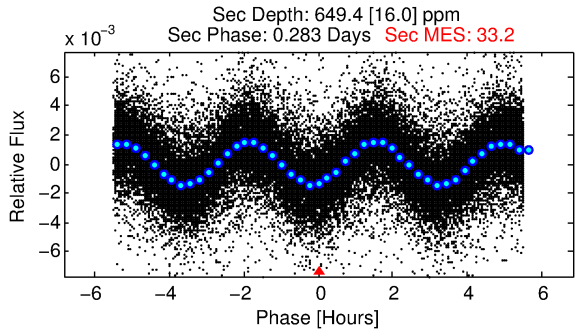
No Significant Match Found

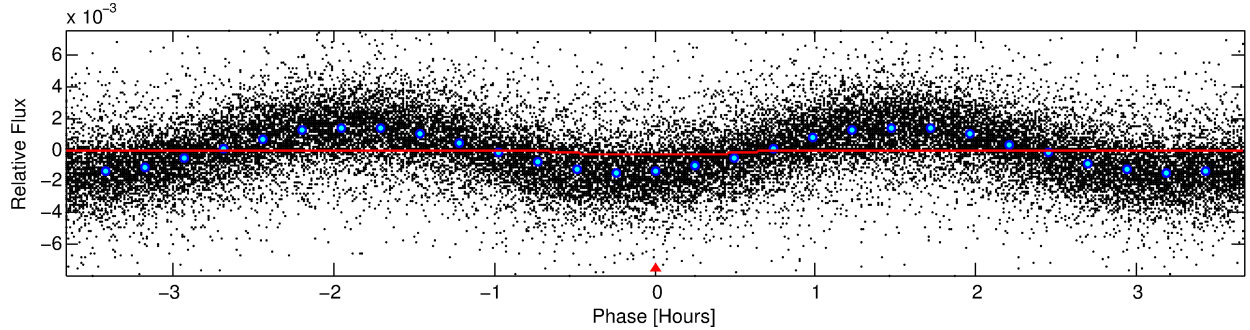
DV One-Page Summary

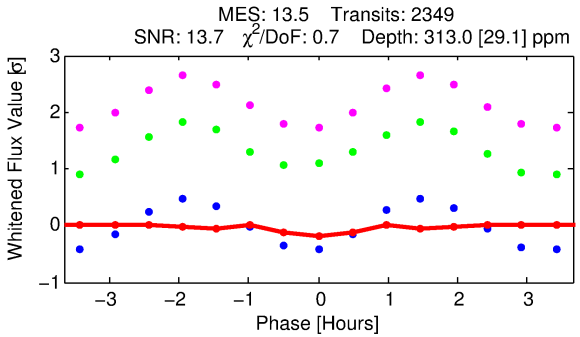
KIC: 6464938 Candidate: 1 of 3 Period: 0.568 d

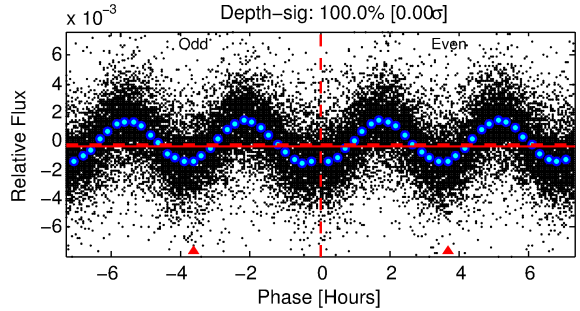


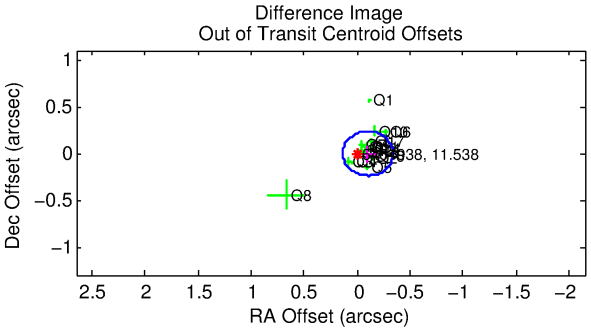












DV Fit Results:

Period = 0.56838 [0.00001] d
Epoch = 131.7686 [0.0011] BKJD
Rp/R* = 0.0168 [0.0050]
a/R* = 3.22 [4.61]
b = 0.50 [2.40]

Seff = N/A
Teq = N/A
Rp = 9.74 [7.11] Re
a = N/A

Ag = N/A
Teffp = N/A

DV Diagnostic Results:

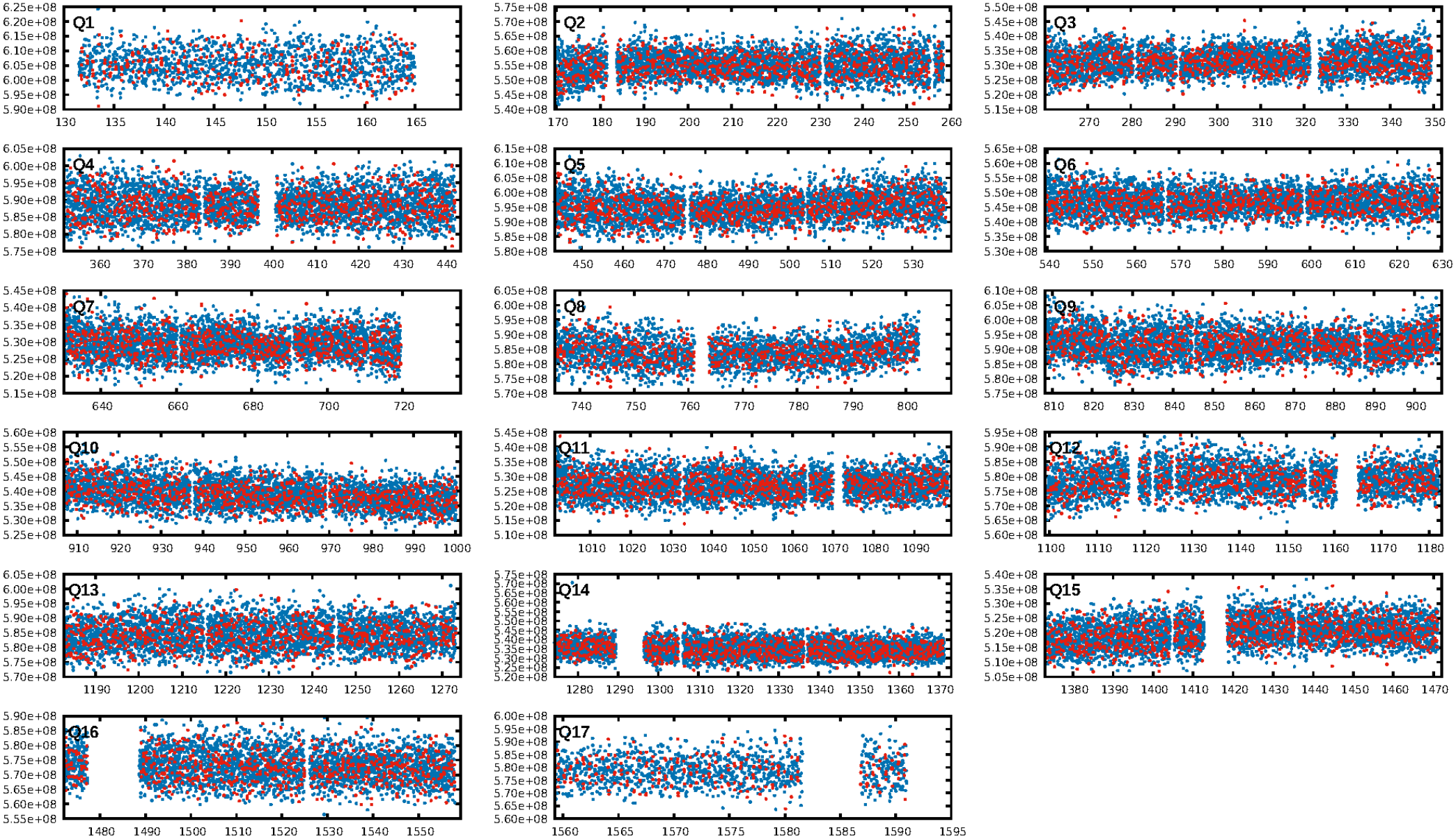
ShortPeriod−sig: 0.0% [0.00σ]
LongPeriod−sig: N/A
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: N/A
RollingBand−fgt: 0.99 [2227/2243]
GhostDiagnostic−chr: −1.454

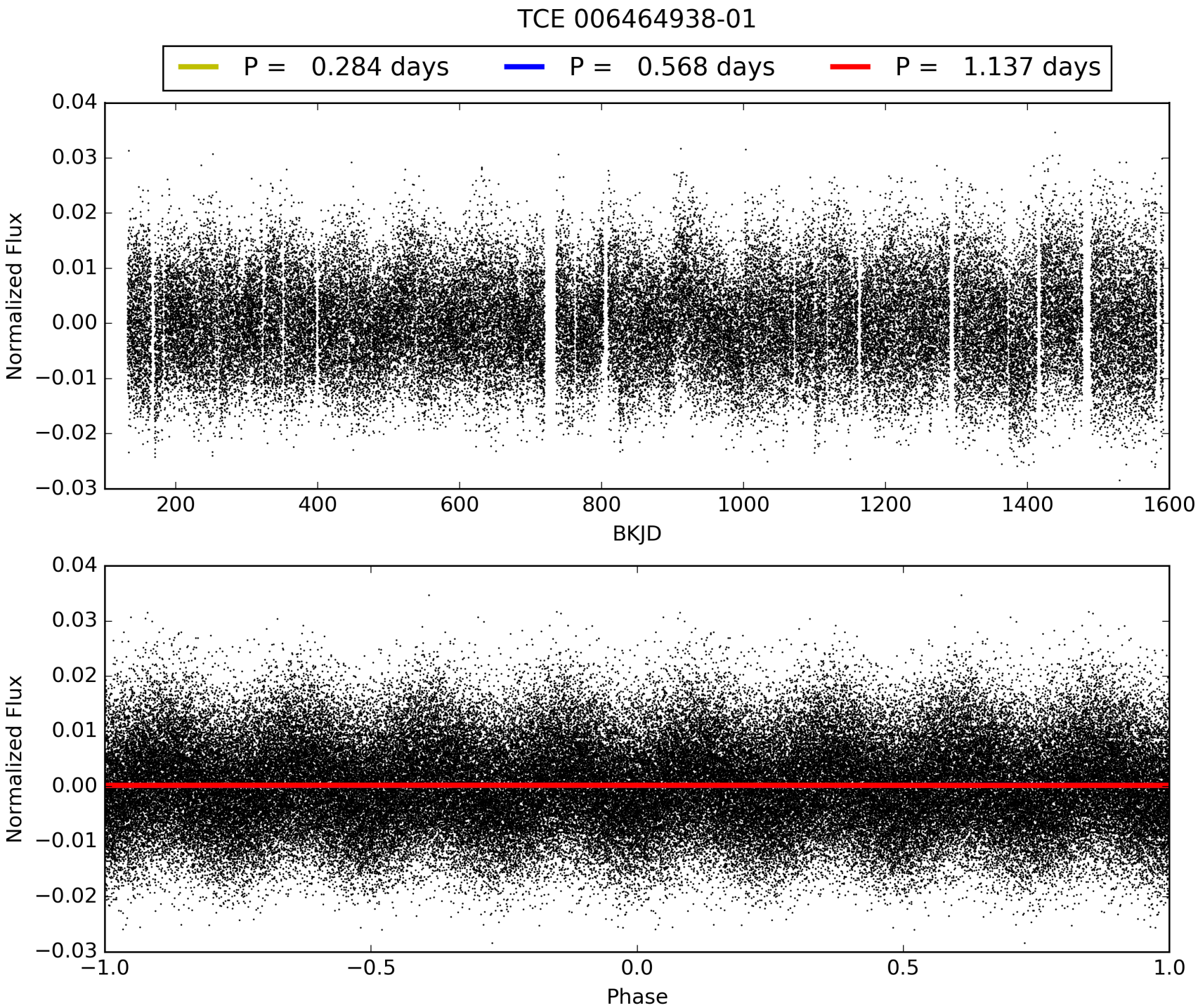
Centroid−sig: 23.8%
Centroid−so: 0.115 arcsec [2.70σ]
OotOffset−rm: 0.099 arcsec [1.25σ]
KicOffset−rm: 0.332 arcsec [4.09σ]
OotOffset−st: 4/4/4/5 [17]
KicOffset−st: 4/4/4/5 [17]
DiffImageQuality−fgm: 1.00 [17/17]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31−Jan−2016 06:07:36 Z

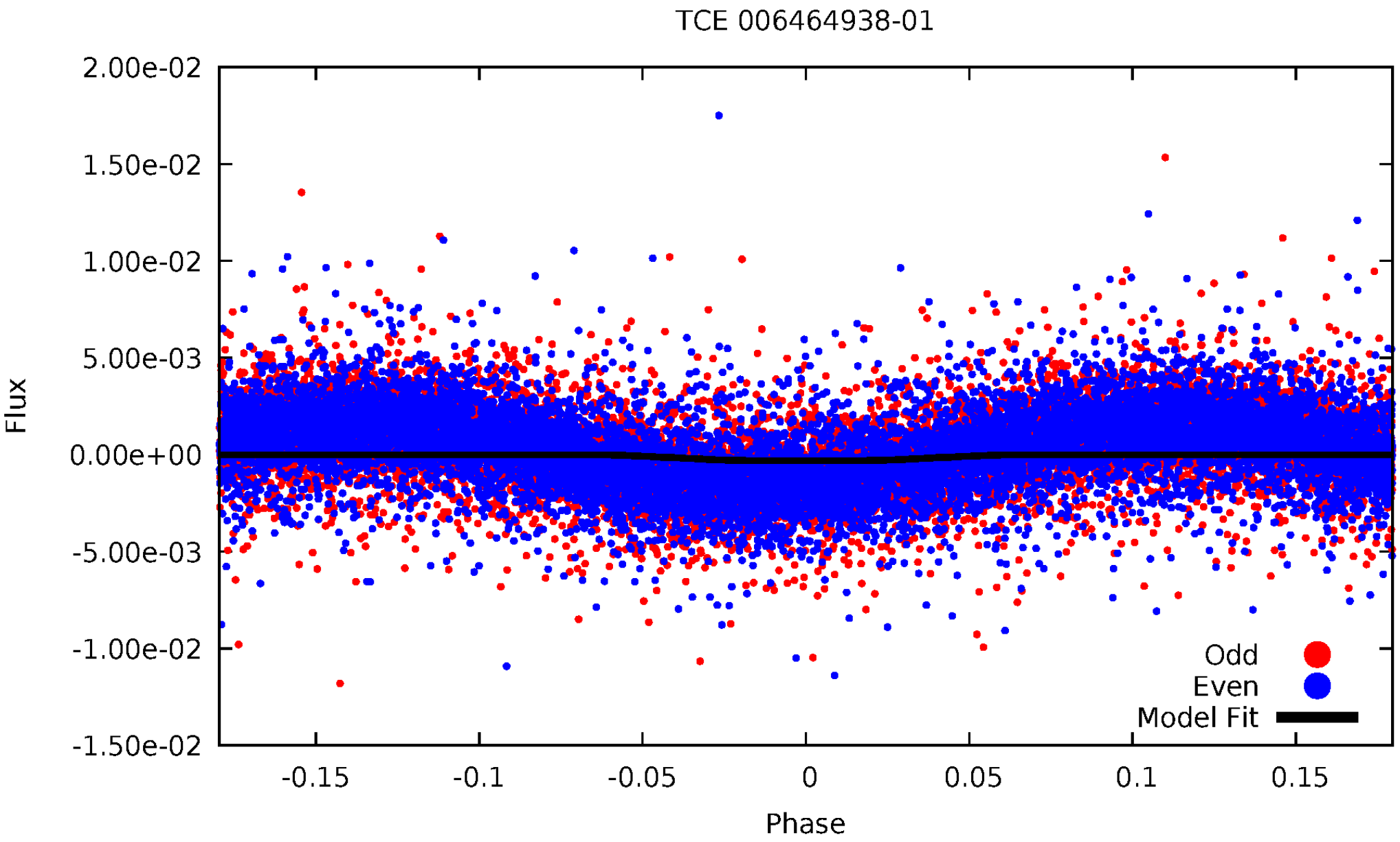
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006464938-01, PDC Light Curves




TCE 006464938-01
P = 0.284 days
P = 0.568 days
P = 1.137 days
Normalized Flux
BKJD
Normalized Flux
Phase

DV Odd/Even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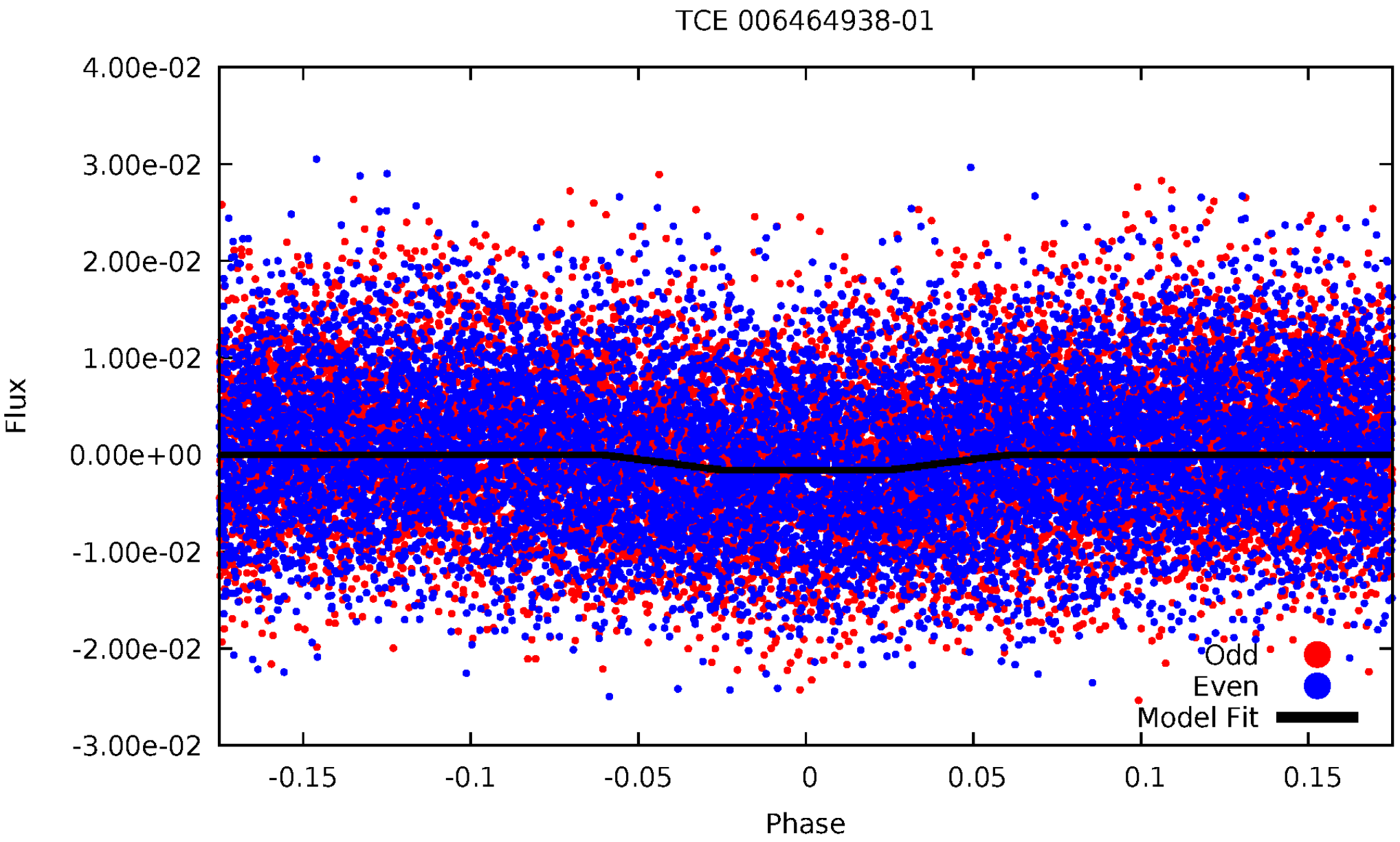
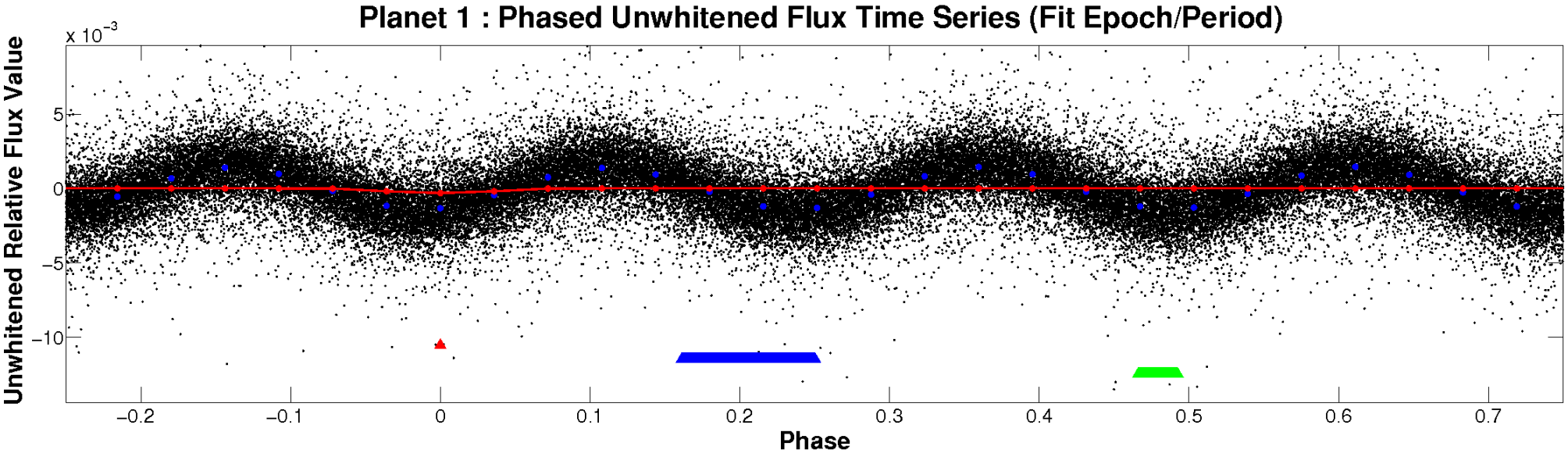
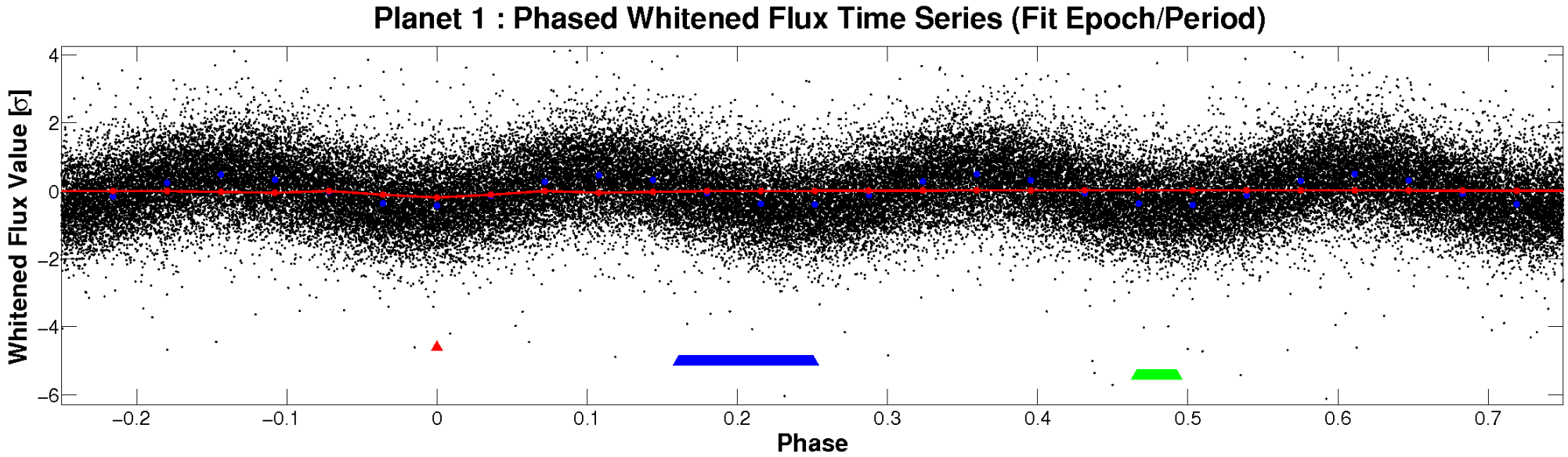
2.00e-02
1.50e-02
1.00e-02
5.00e-03
0.00e+00
-5.00e-03
-1.00e-02
-1.50e-02
Flux
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006464938-01
4.00e-02
3.00e-02
2.00e-02
1.00e-02
0.00e+00
-1.00e-02
-2.00e-02
-3.00e-02
Flux
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
Phase
Odd
Even
Model Fit

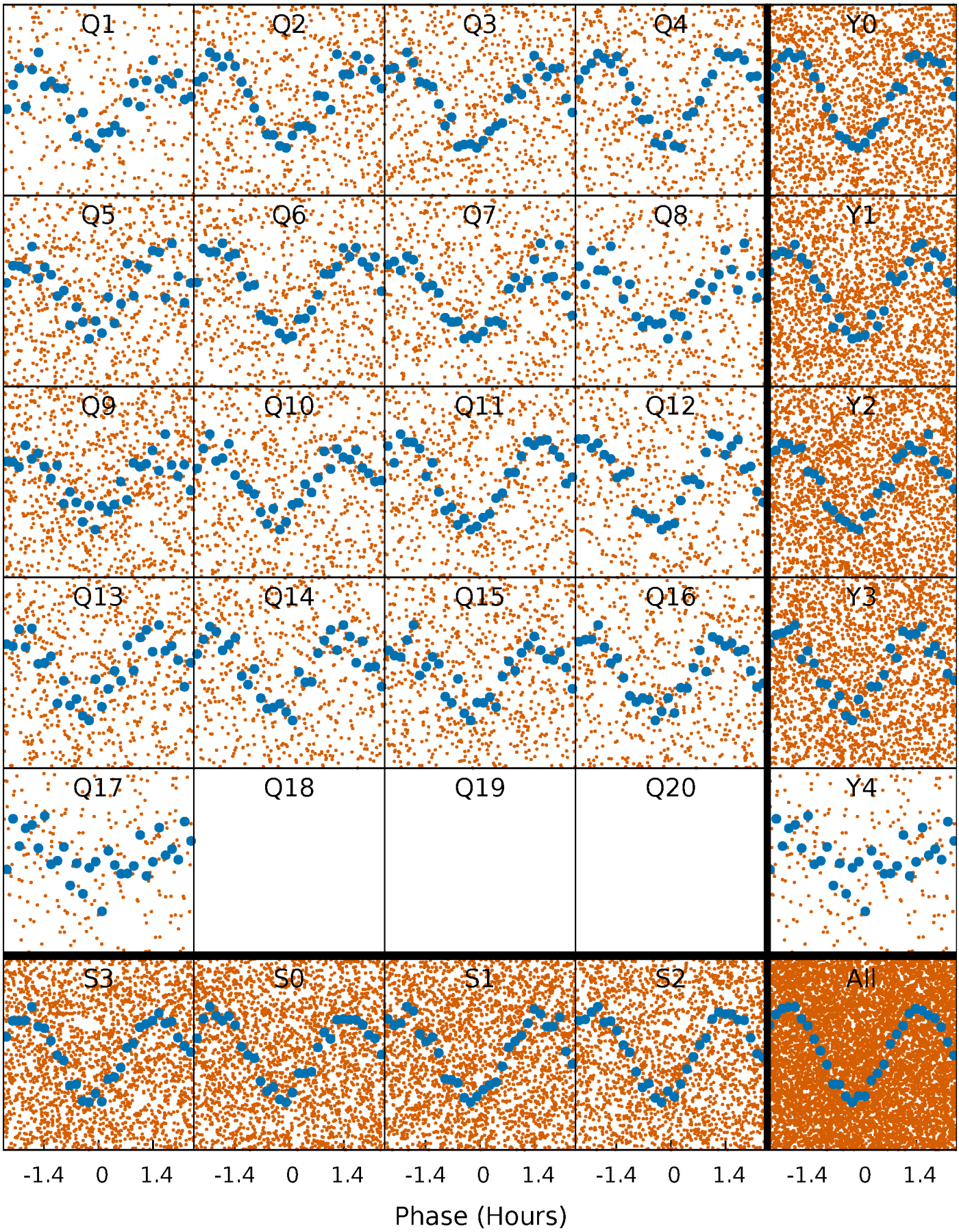
Non-Whitened Vs. Whitened Light Curve





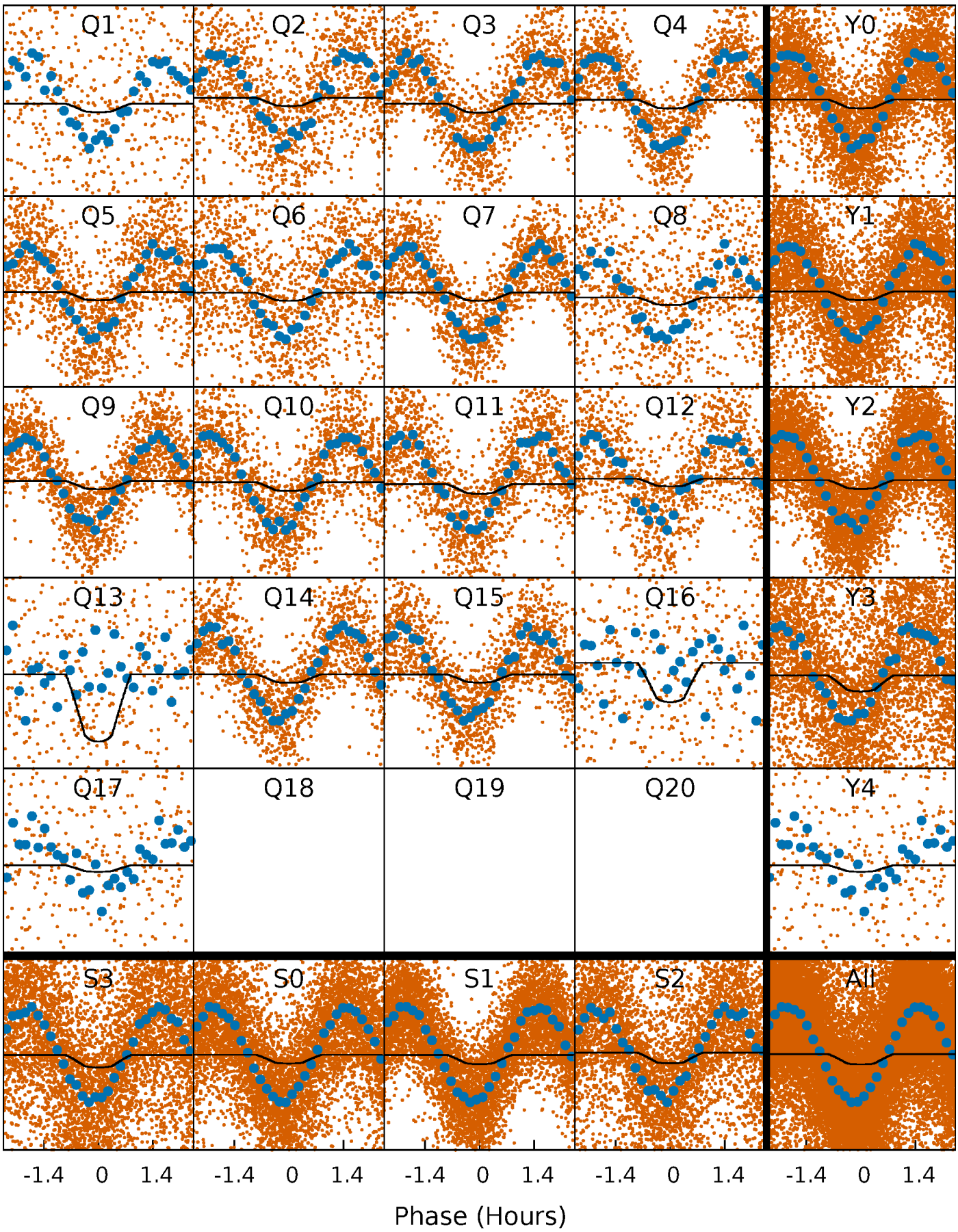
PDC Quarter-Phased Transit Curves

TCE 006464938-01 P= 0.568384 Days T_0=131.768636 (BKJD)



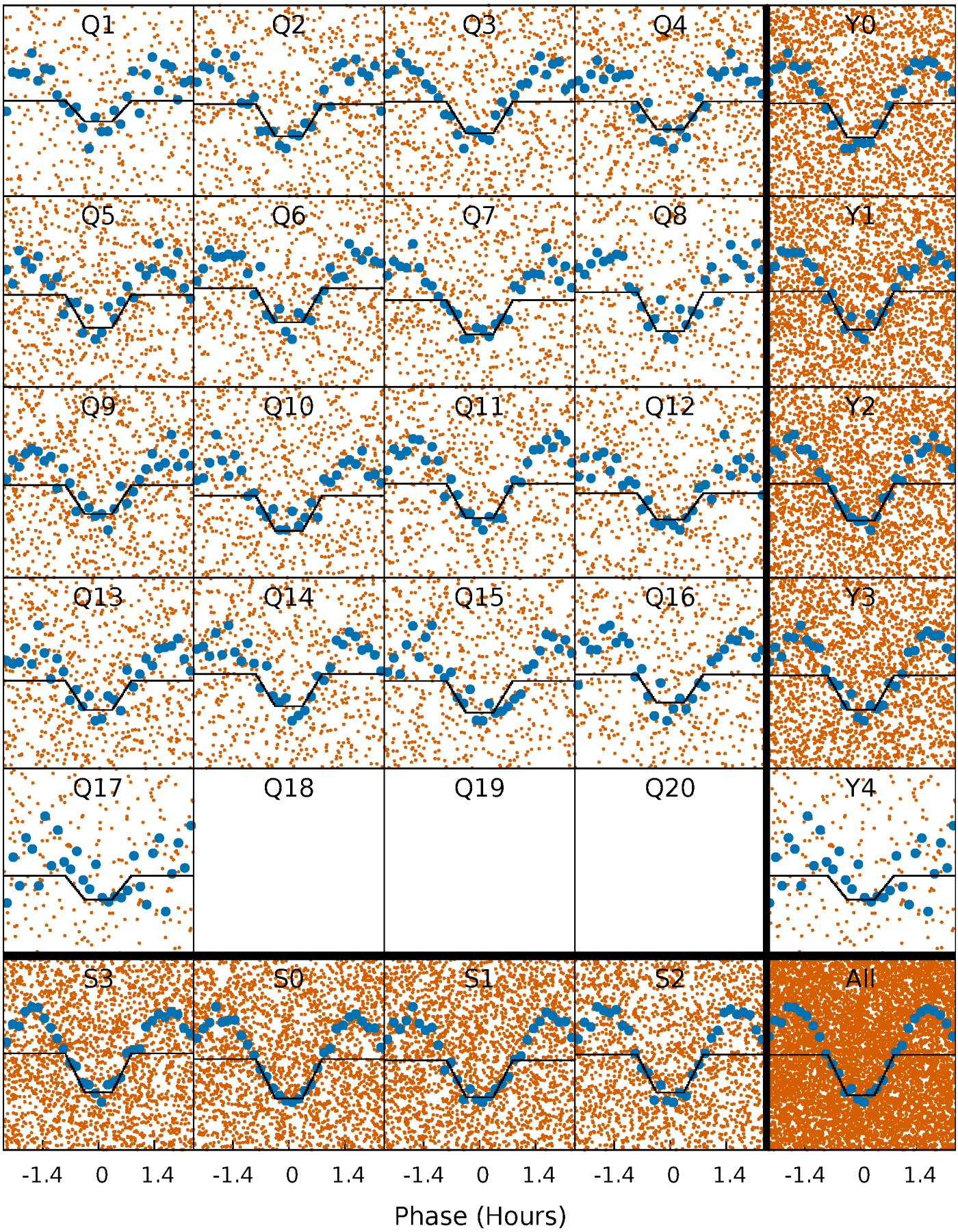
DV Quarter-Phased Transit Curves

TCE 006464938-01 P= 0.568384 Days T_0=131.768636 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

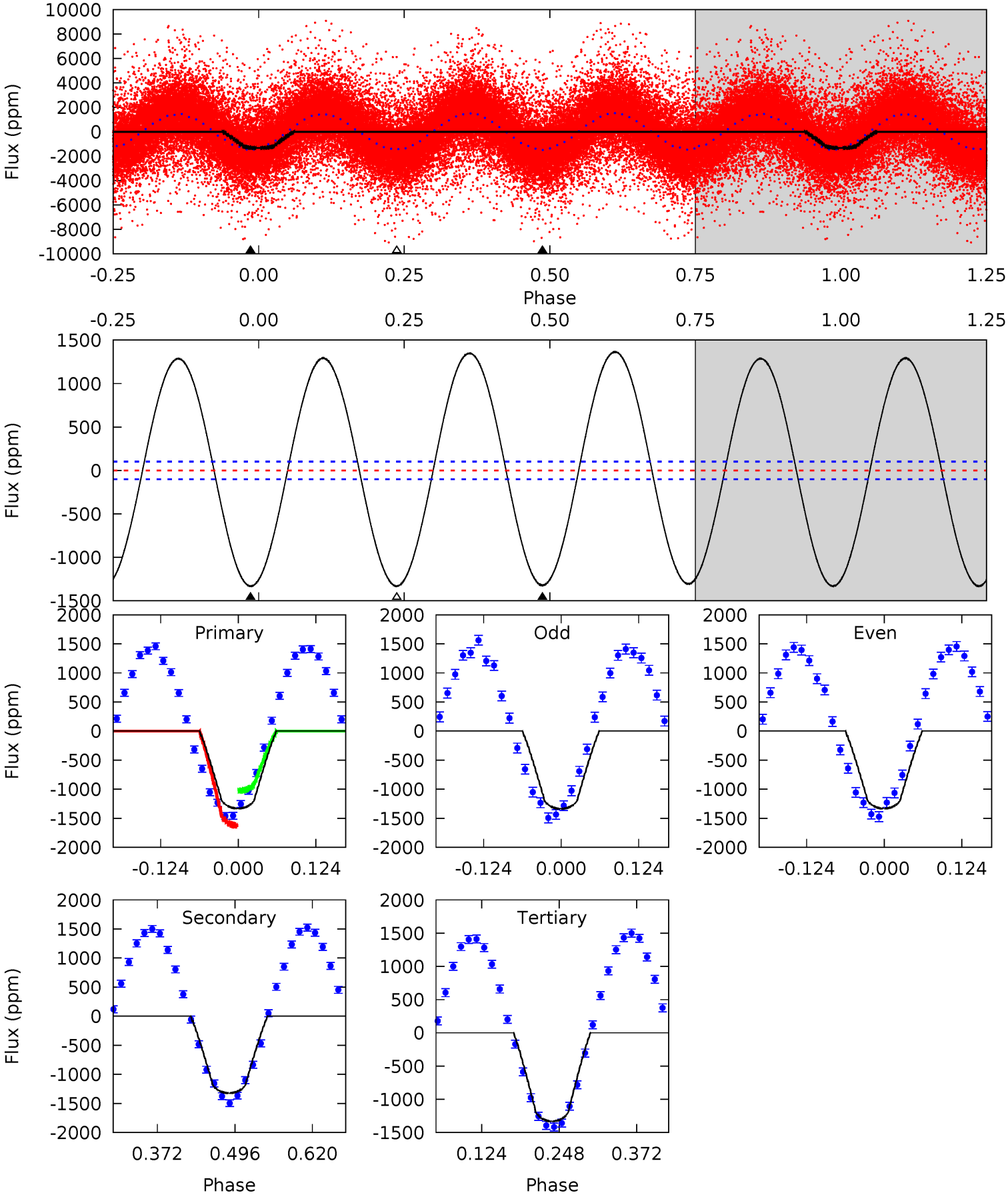
TCE 006464938-01 P= 0.568376 Days T_0=131.769853 (BKJD)



DV Model-Shift Uniqueness Test

006464938-01, P = 0.568384 Days, E = 131.200252 Days

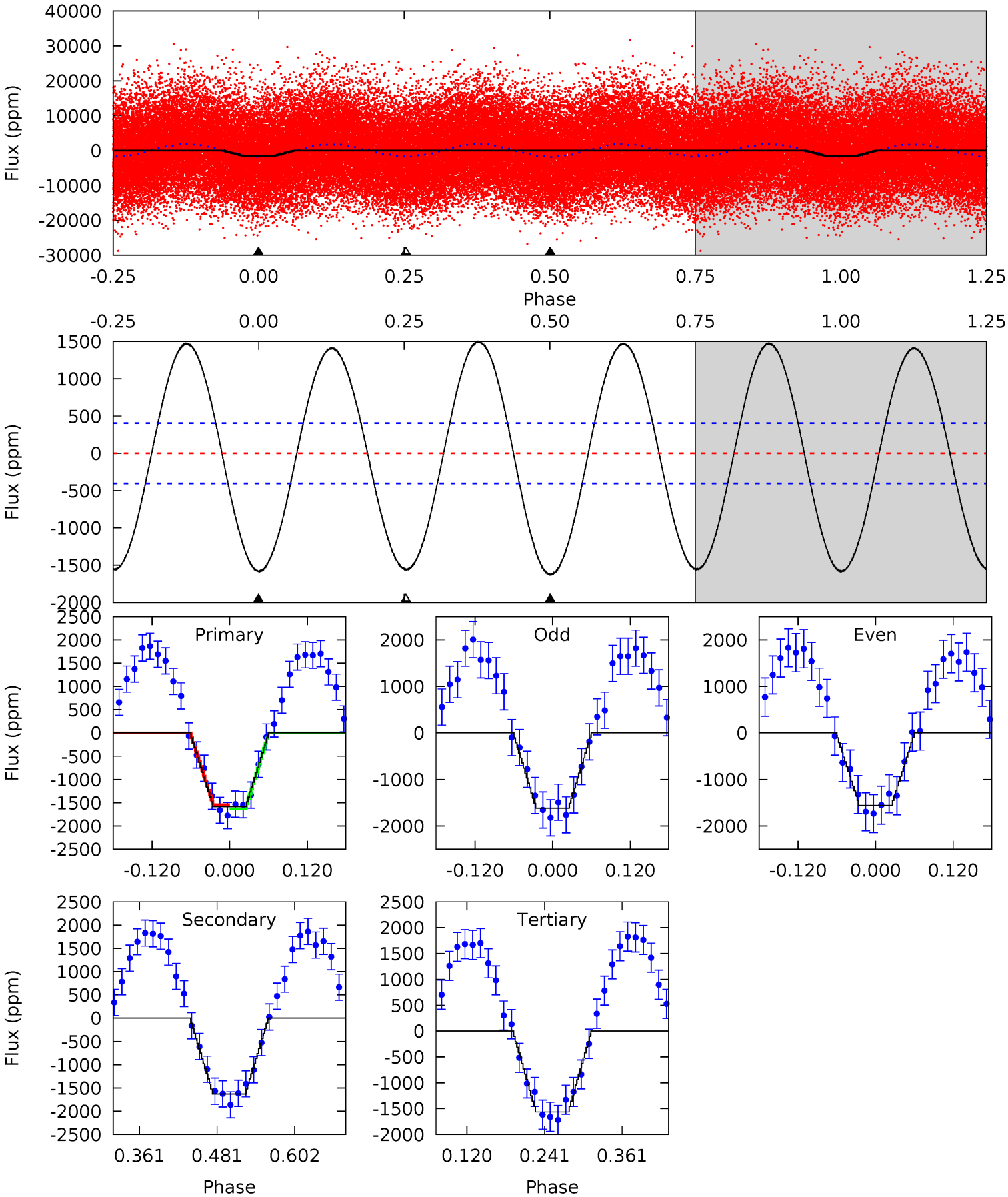
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
59.7	59.3	59.7	0	4.52	1.54	42.0	0.00	59.7	-0.43	59.3	0.09	0.93	0.51	14.2



Alt Model-Shift Uniqueness Test

006464938-01, P = 0.568376 Days, E = 131.201477 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.7	18.2	17.5	0	4.53	1.55	12.1	0.26	17.7	0.75	18.2	0.35	0.97	0.48	0.50



Stellar Parameters For KIC 006464938

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7631^{+217}_{-325}	$3.338^{+0.825}_{-0.194}$	$-0.500^{+0.300}_{-0.250}$	$5.299^{+1.906}_{-3.540}$	$2.231^{+0.215}_{-0.858}$	$0.021^{+0.415}_{-0.010}$
	+3%/-4%	+25%/-6%	+60%/-50%	+36%/-67%	+10%/-38%	+1964%/-48%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006464938-01 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1322±22	$8.38^{+3.87}_{-3.61}$	7867^{+871}_{-1550}	12597^{+5236}_{-2696}	$3.001^{+6.298}_{-1.544}$
Alt.	-1631±90	$20.71^{+6.34}_{-7.03}$	7829^{+918}_{-1325}	6431^{+1103}_{-1405}	$0.626^{+0.735}_{-0.247}$

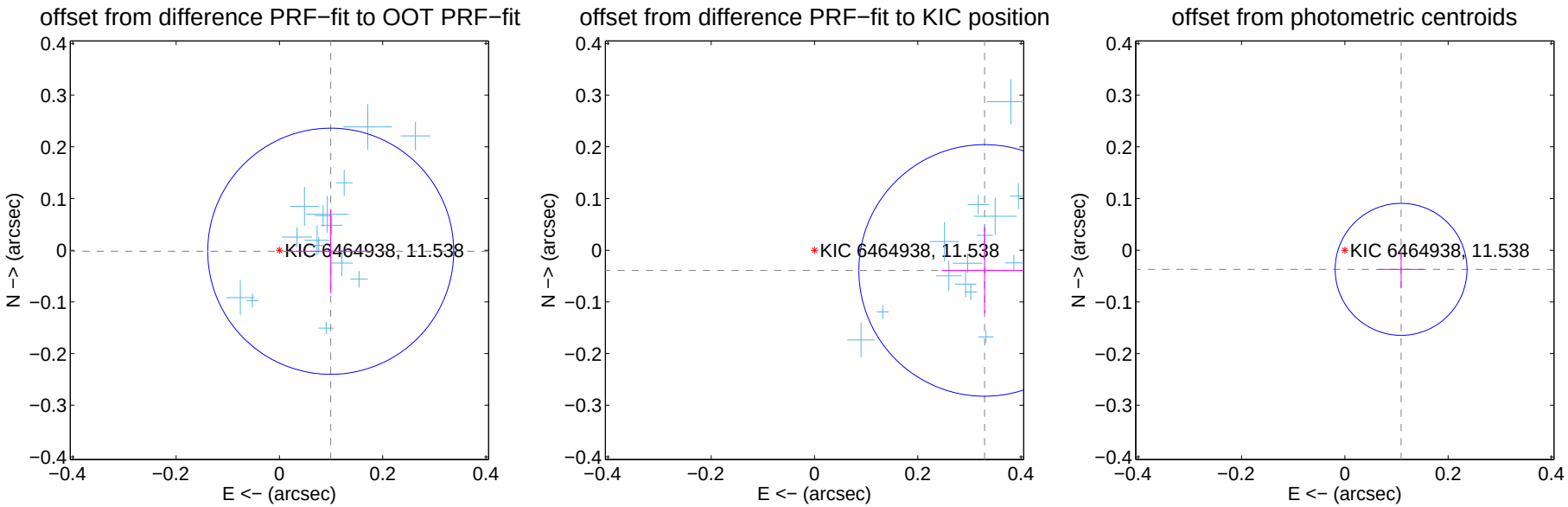
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

DV Centroid Data

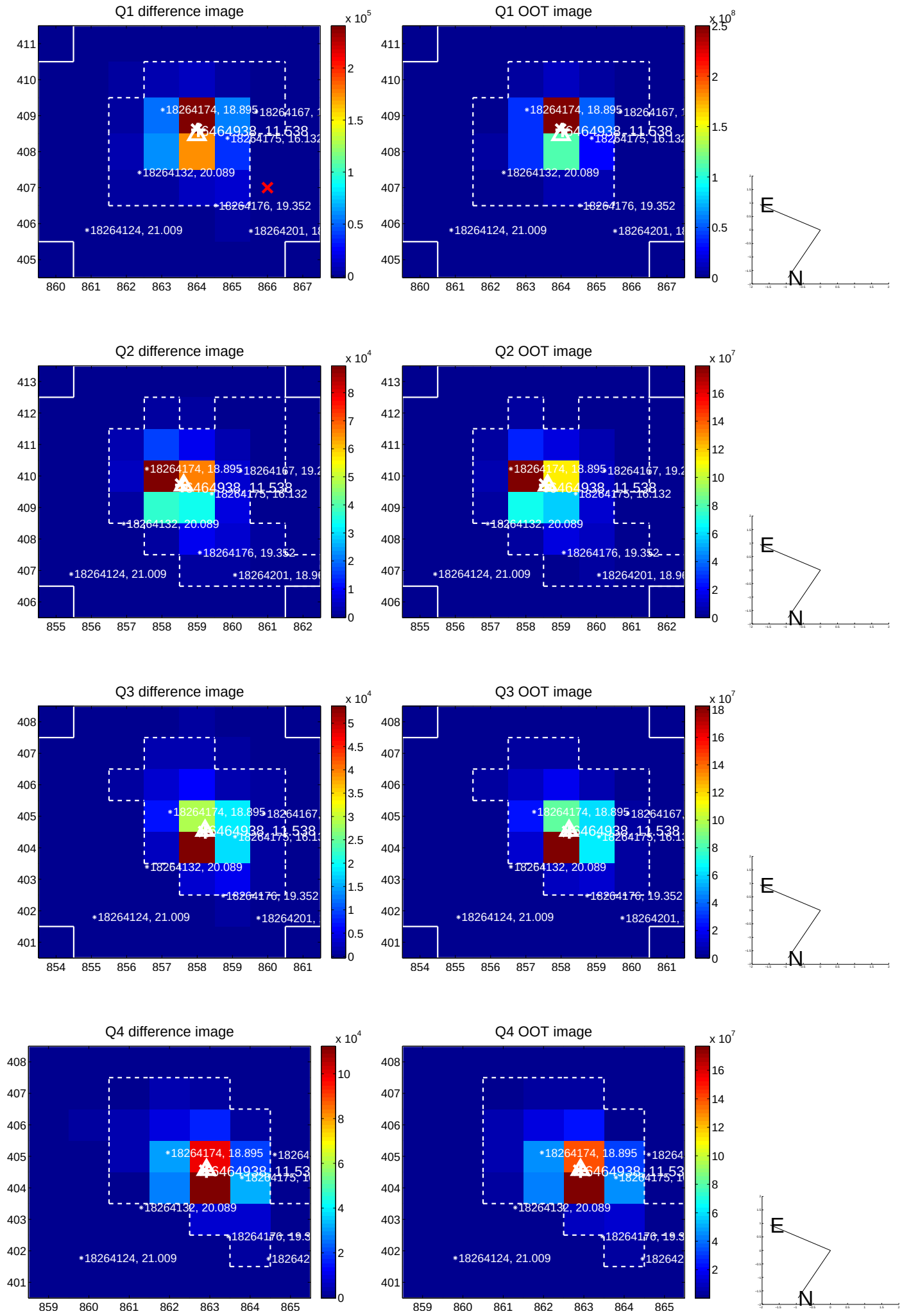
Supplemental centroid analysis for 006464938-01. Kepler magnitude: 11.54. Transit SNR 13.66
There are 17 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.099 ± 0.079	1.25	-0.099 ± 0.080	-0.002 ± 0.081
PRF-fit source offset from KIC position	0.332 ± 0.081	4.09	-0.329 ± 0.084	-0.039 ± 0.083
photometric centroid source offset	0.12 ± 0.04	2.70	-0.11 ± 0.04	-0.04 ± 0.04

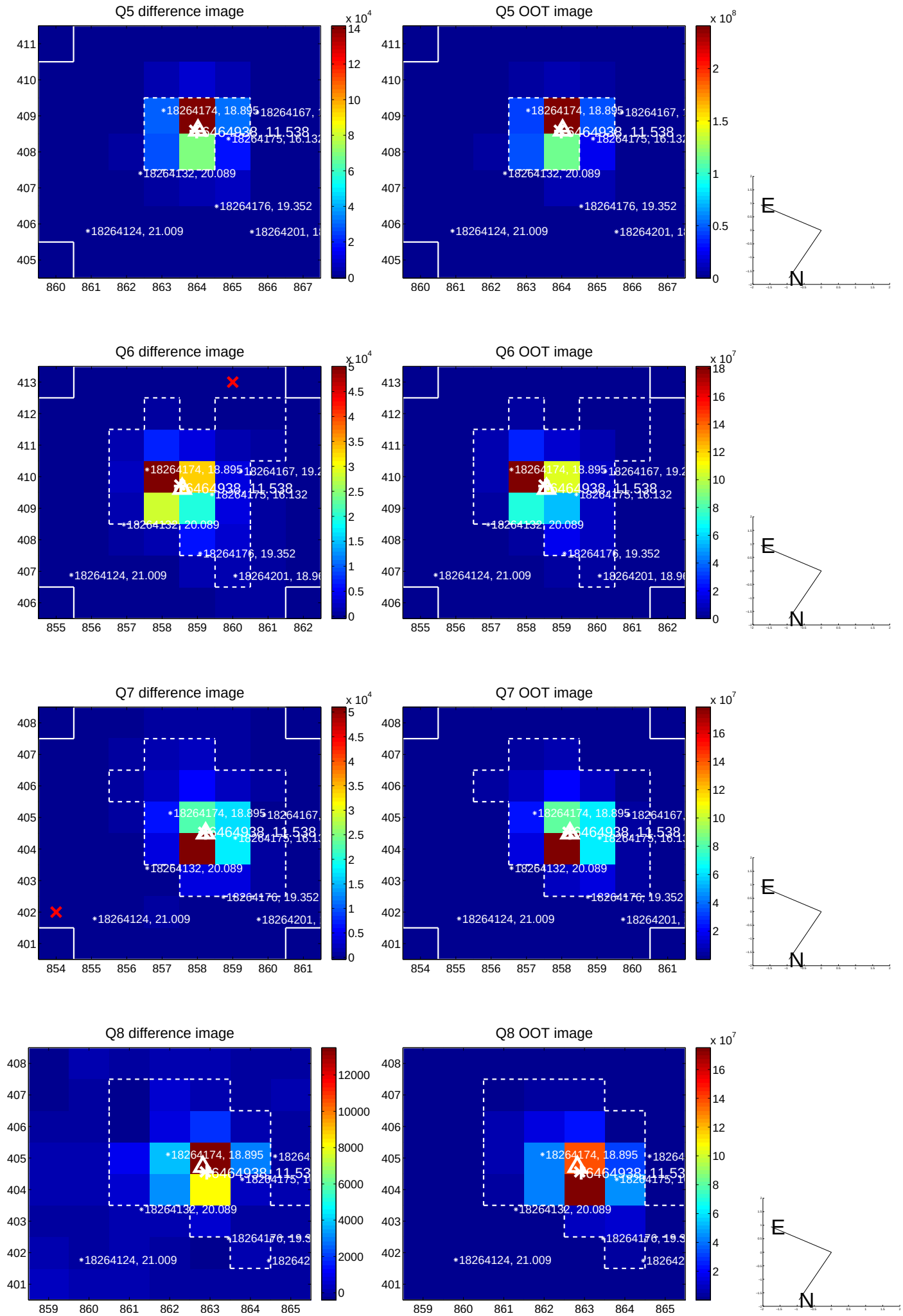


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs $> 15,000,000$ are from the UKIRT catalog.

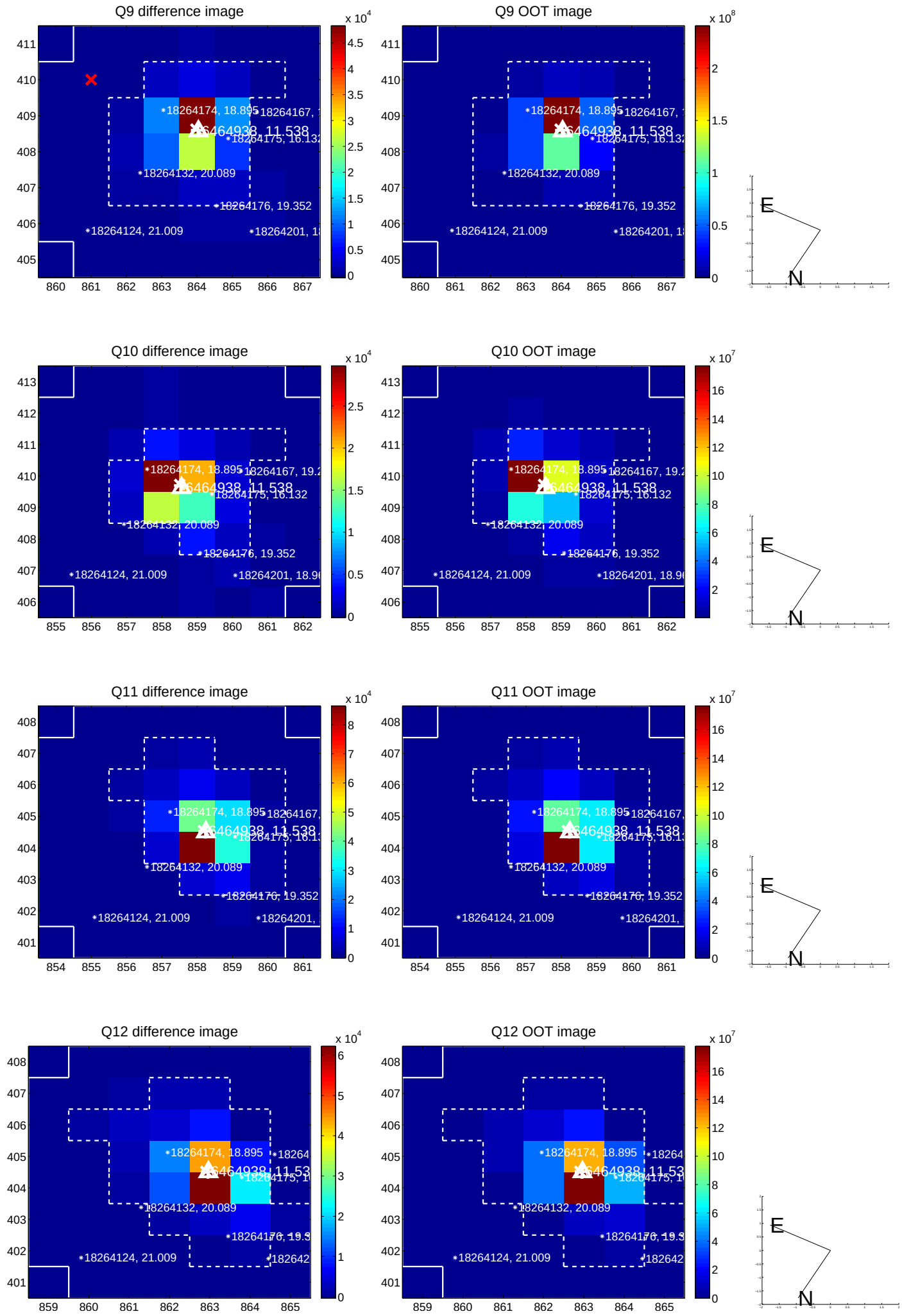
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



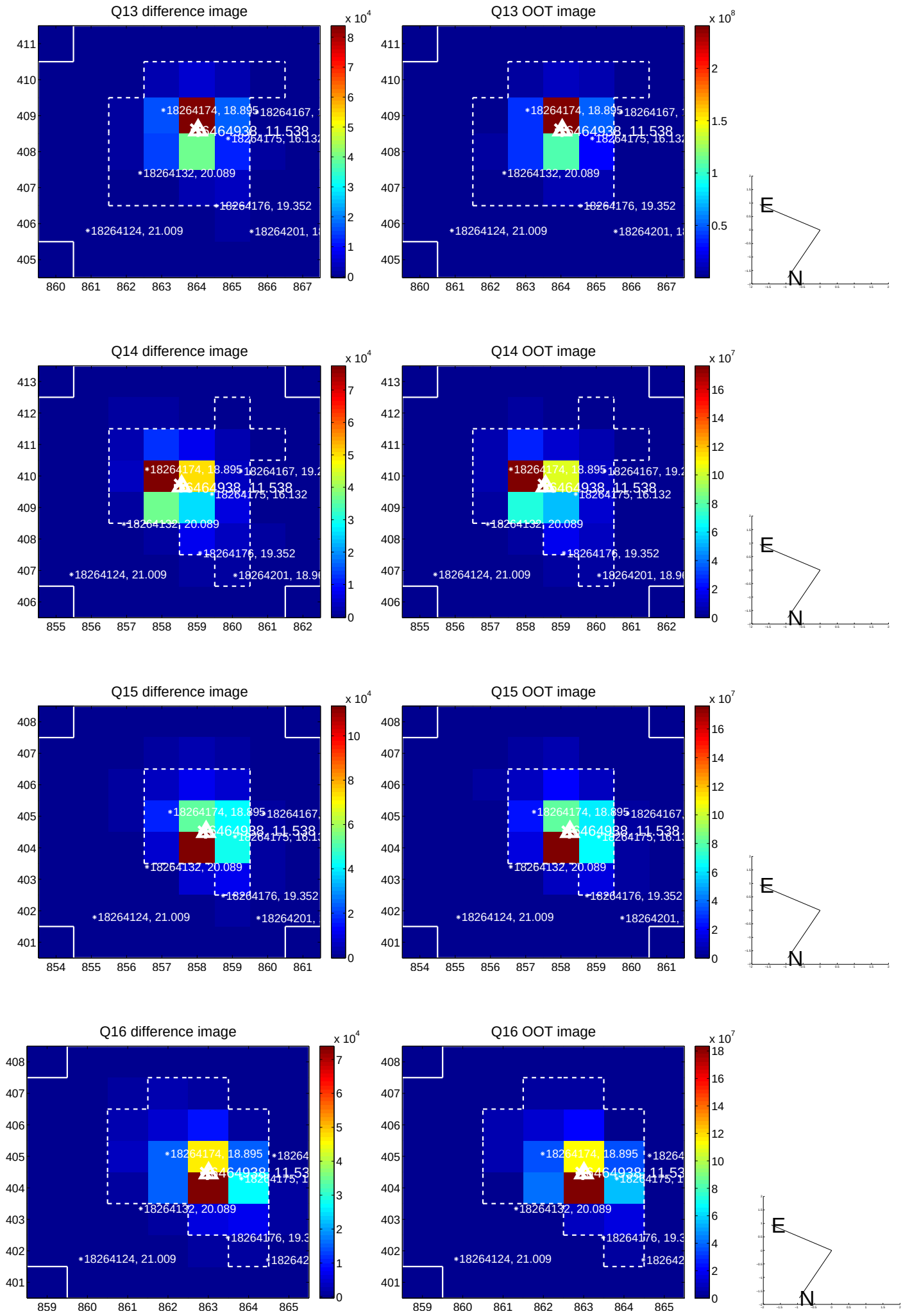
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



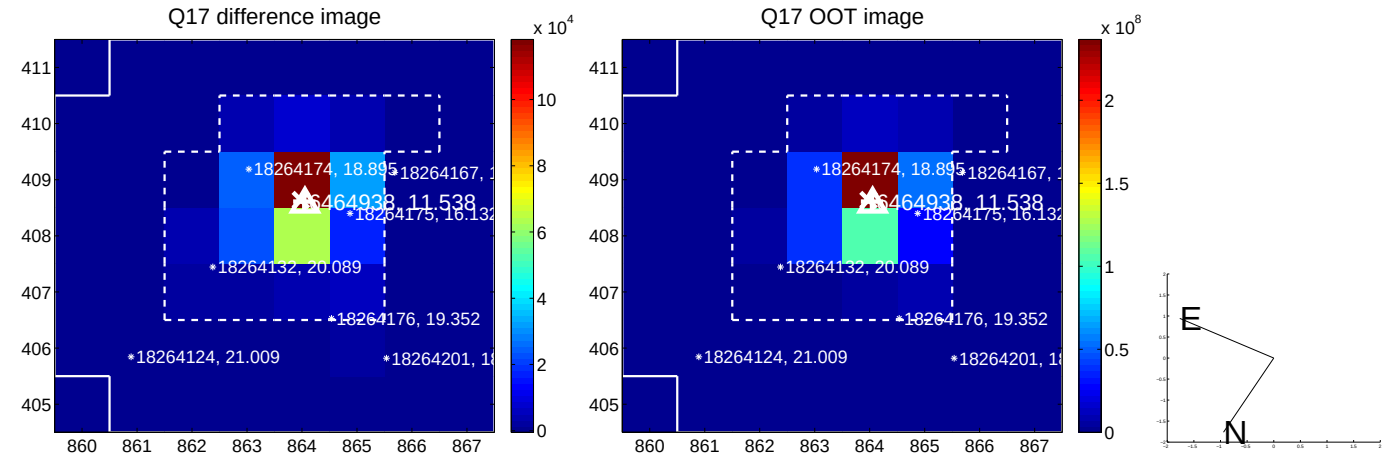
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

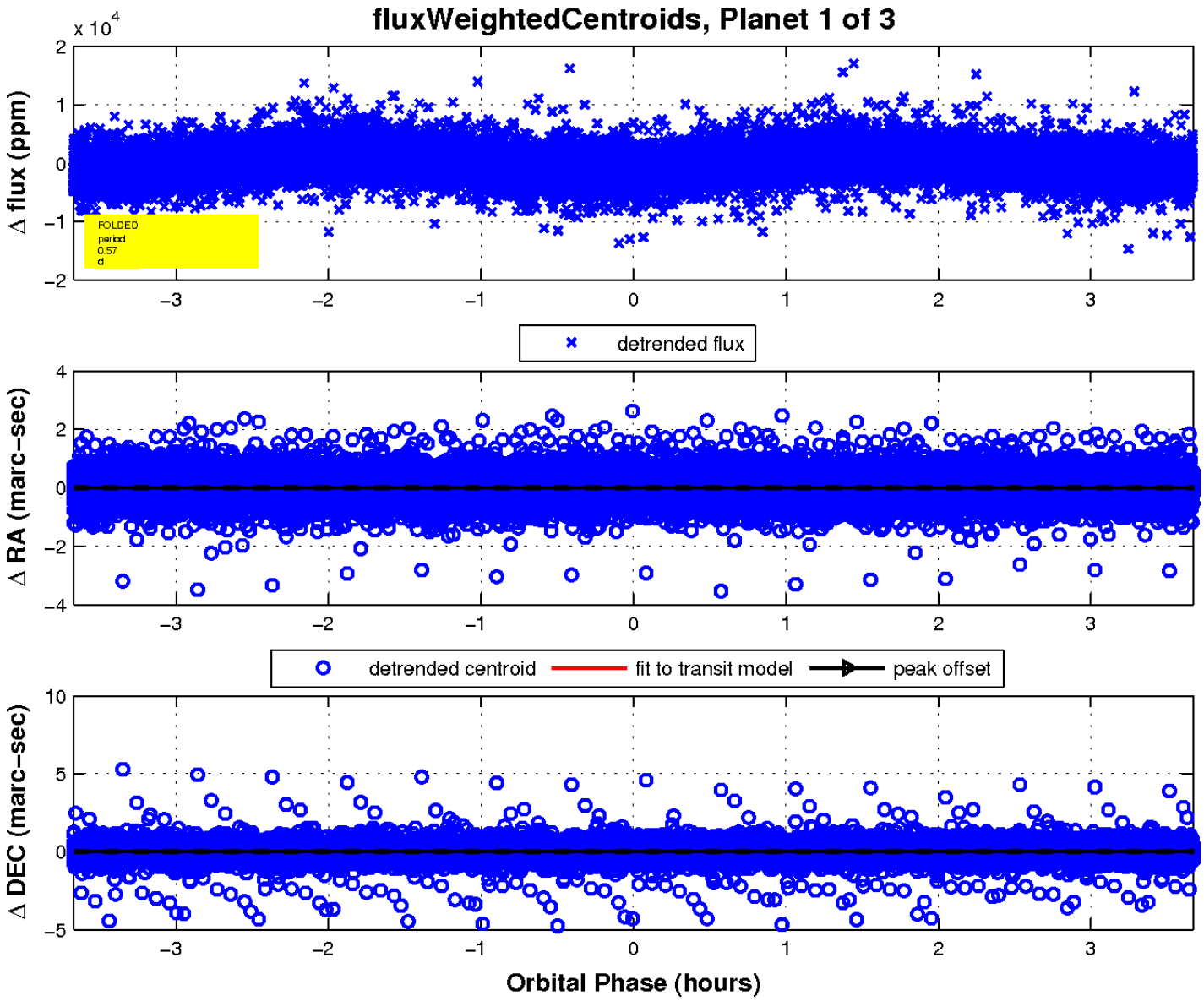


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

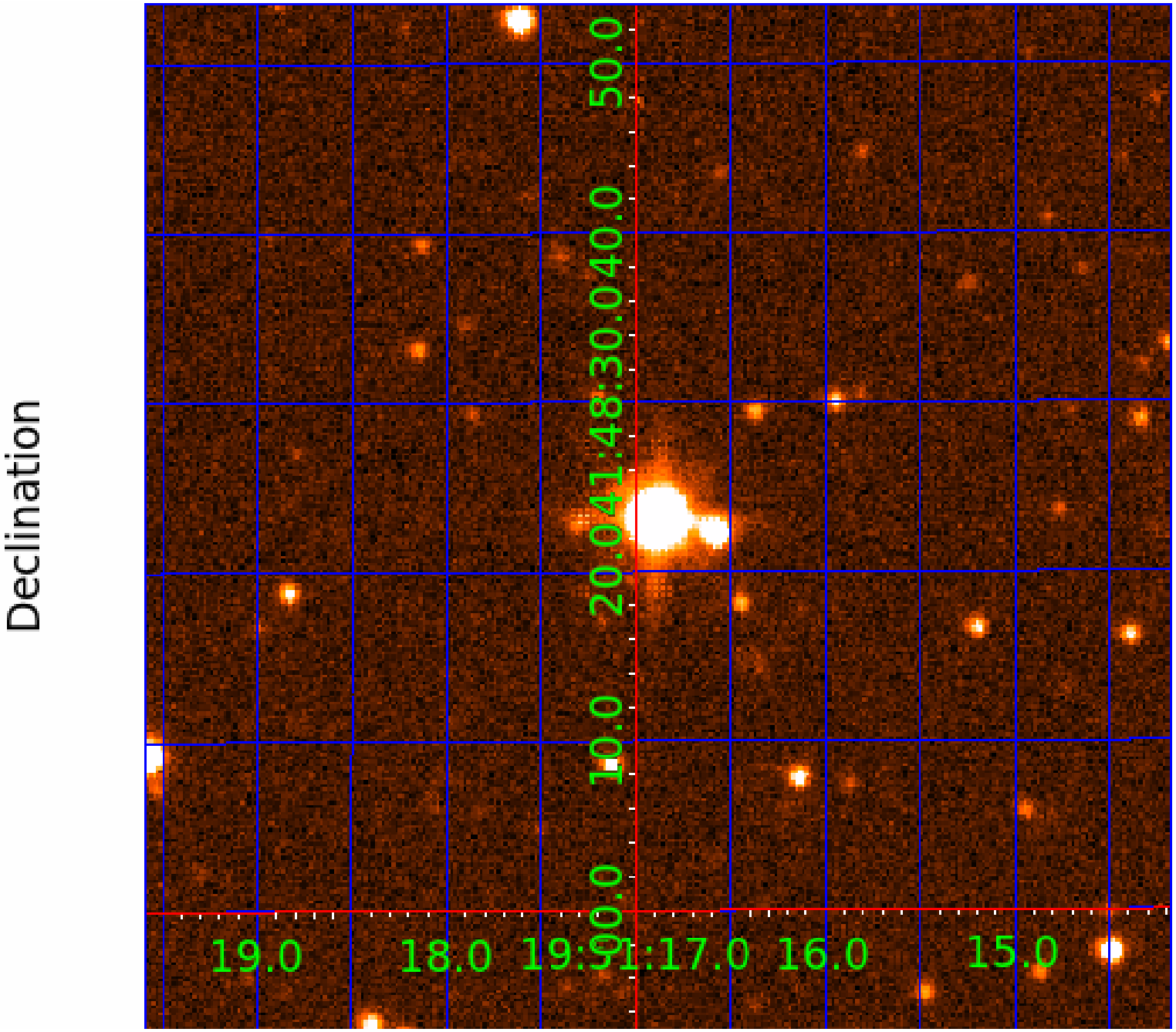


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image


Declination
50.0
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00.0
19.0
18.0
19:51:17.0
16.0
15.0

KIC 006464938

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	$R_\star$ ($R_\odot$)	$T_\star$ (K)	R_p ($R_\oplus$)	S_p ($S_\oplus$)
006464938-01	OBS	No	0.568384	131.768636	313.0	1.224	13.5	13.7	5.30	7631	9.74	0.00
006464938-02	OBS	No	0.568364	131.910945	503.7	1.336	16.0	17.5	5.30	7631	13.95	0.00
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006464938-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
006464938-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
006464938-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

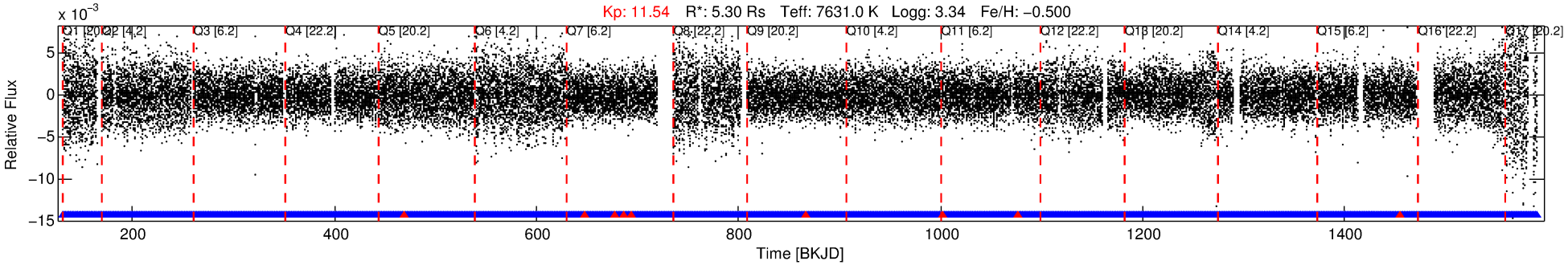
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

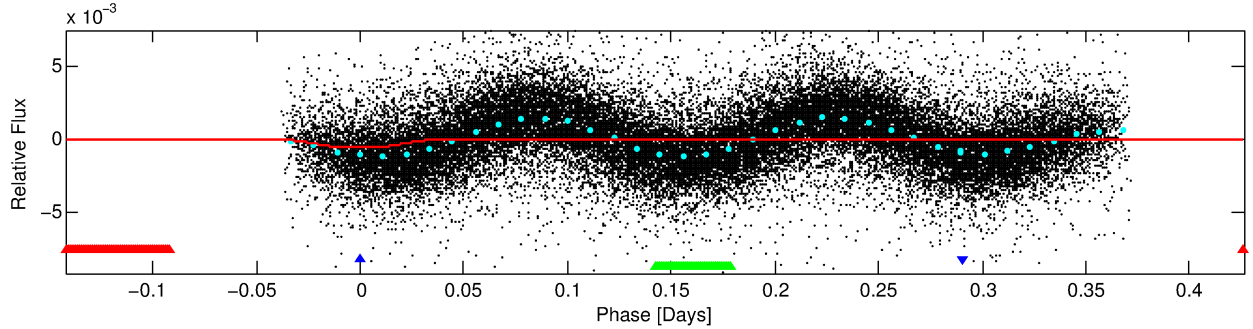
Ephemeris Match Information For 006464938-02

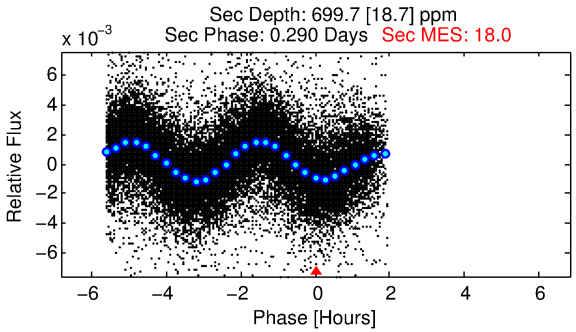
No Significant Match Found

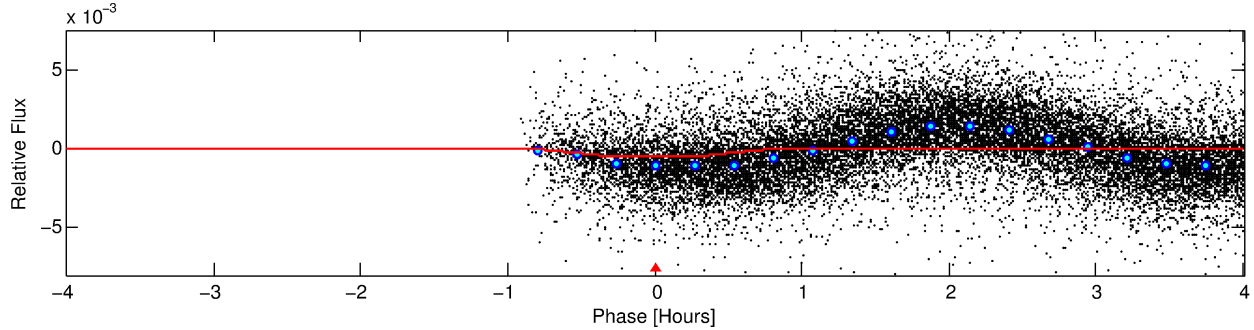
DV One-Page Summary

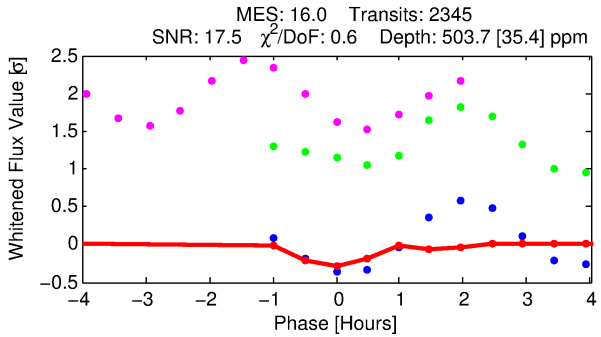
KIC: 6464938 Candidate: 2 of 3 Period: 0.568 d

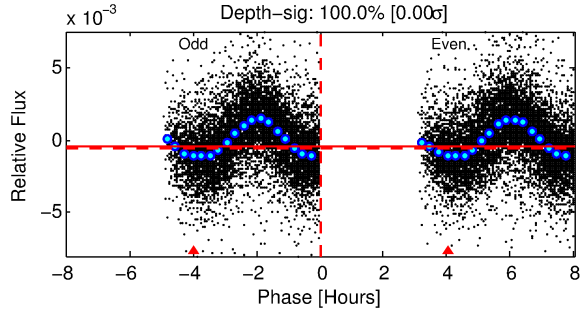


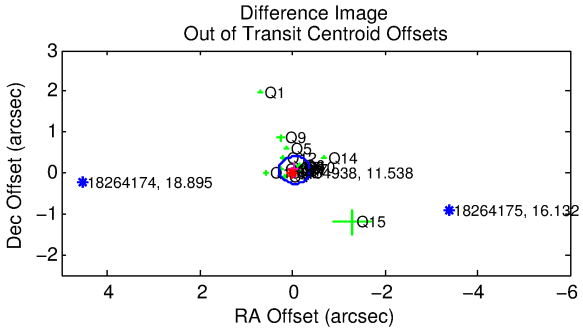












DV Fit Results:

Period = 0.56836 [0.00001] d
Epoch = 131.9109 [0.0012] BKJD
Rp/R* = 0.0241 [0.0044]
a/R* = 1.85 [1.37]
b = 0.90 [0.22]

Seff = N/A
Teq = N/A
Rp = 13.95 [9.66] Re
a = N/A

Ag = N/A
Teffp = N/A

DV Diagnostic Results:

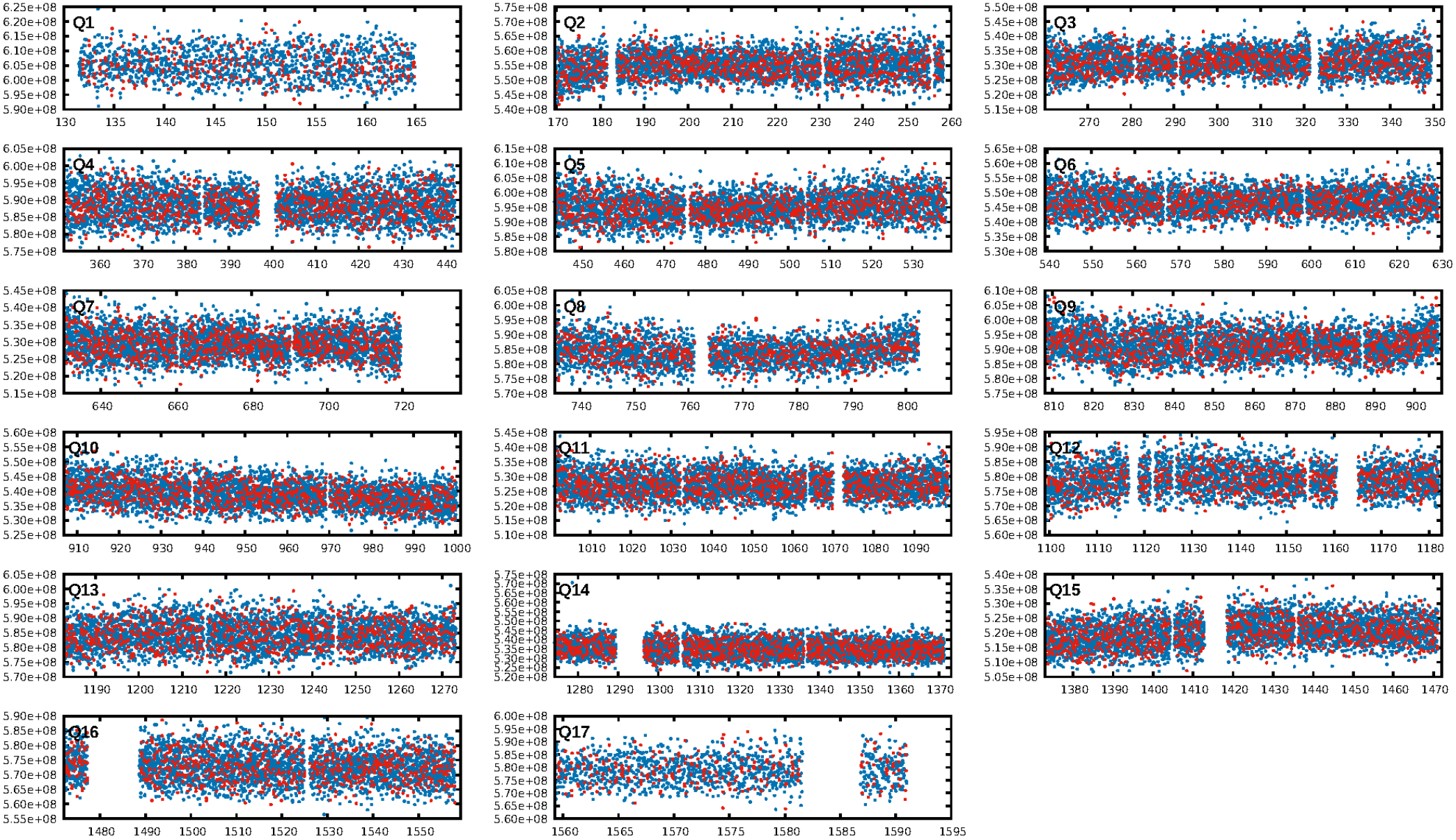
ShortPeriod−sig: N/A
LongPeriod−sig: 0.0% [0.00σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: N/A
RollingBand−fgt: 1.00 [2230/2239]
GhostDiagnostic−chr: 6.358

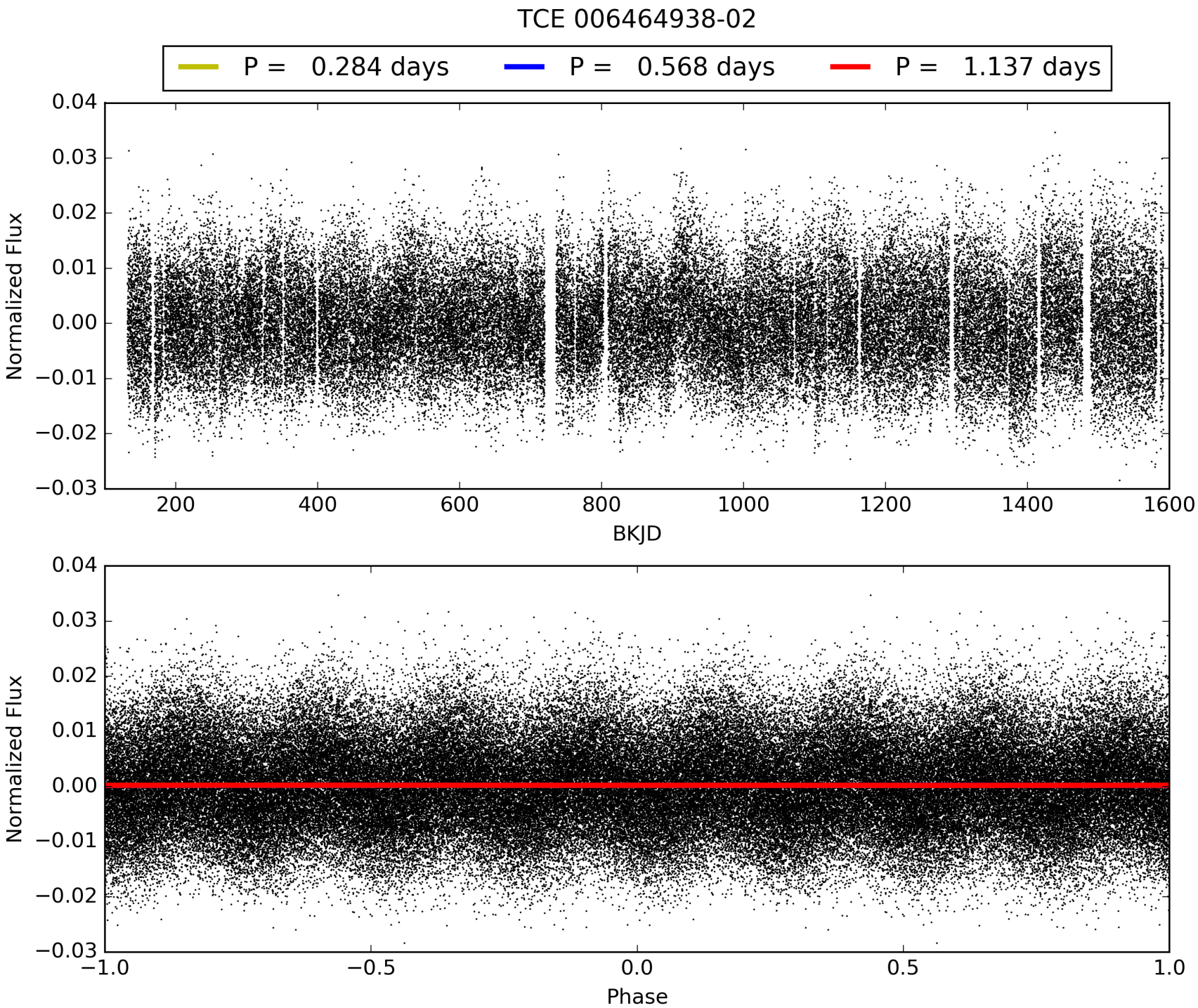
Centroid−sig: 25.0%
Centroid−so: 0.136 arcsec [5.05σ]
OotOffset−rm: 0.084 arcsec [0.76σ]
KicOffset−rm: 0.262 arcsec [2.41σ]
OotOffset−st: 4/4/4/5 [17]
KicOffset−st: 4/4/4/5 [17]
DiffImageQuality−fgm: 0.88 [15/17]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31−Jan−2016 06:07:46 Z

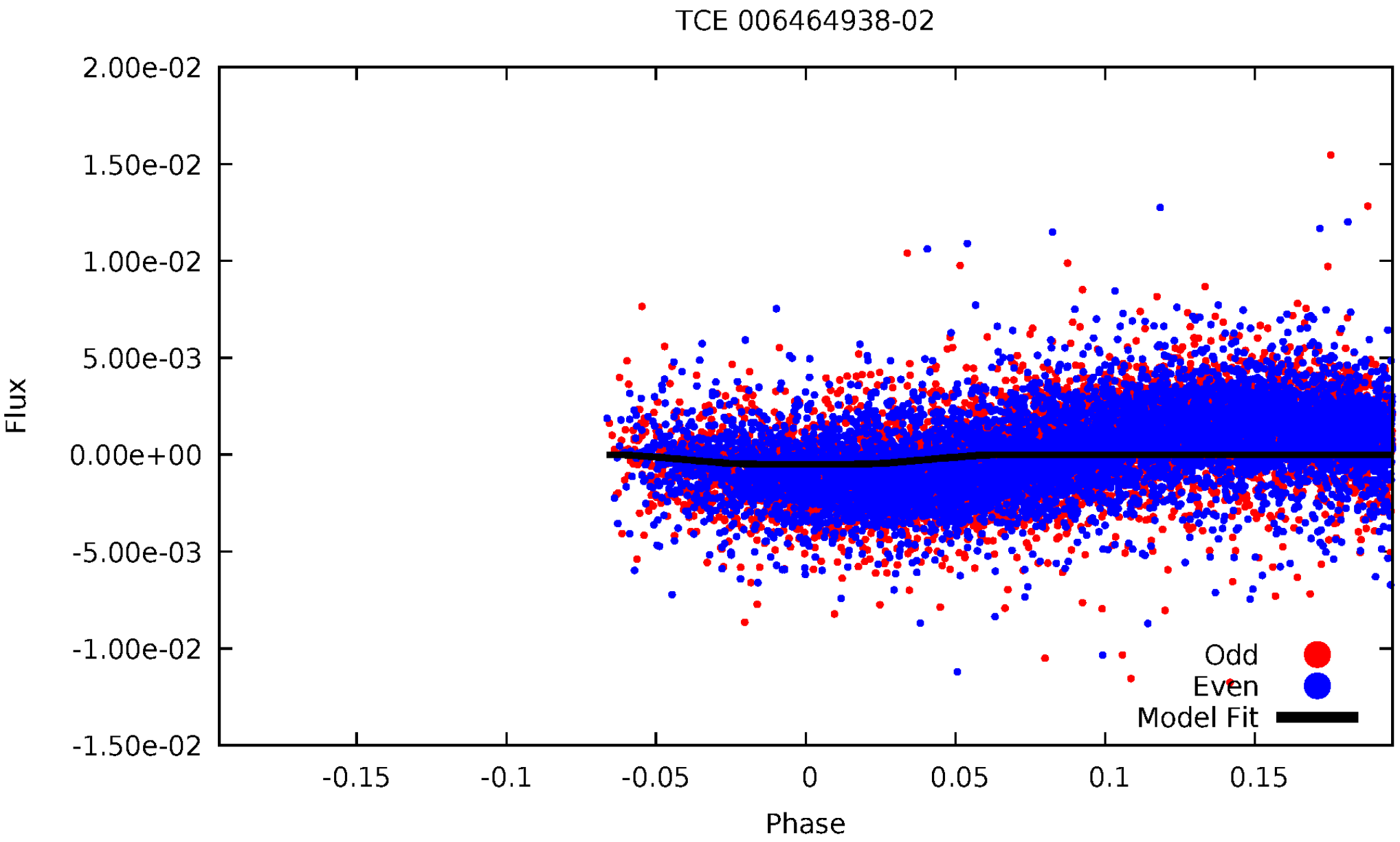
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006464938-02, PDC Light Curves

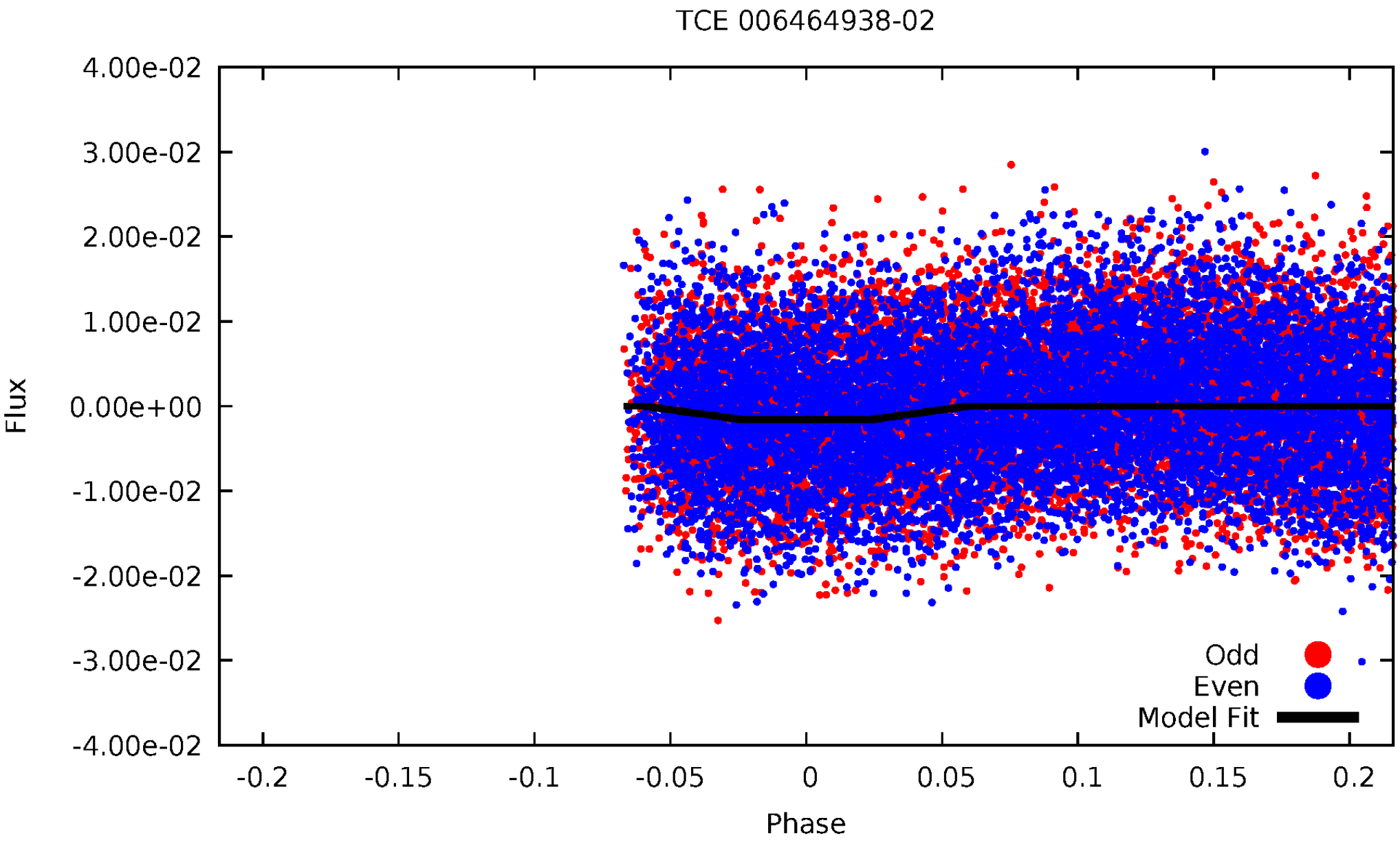



TCE 006464938-02
P = 0.284 days
P = 0.568 days
P = 1.137 days
Normalized Flux
BKJD
Normalized Flux
Phase

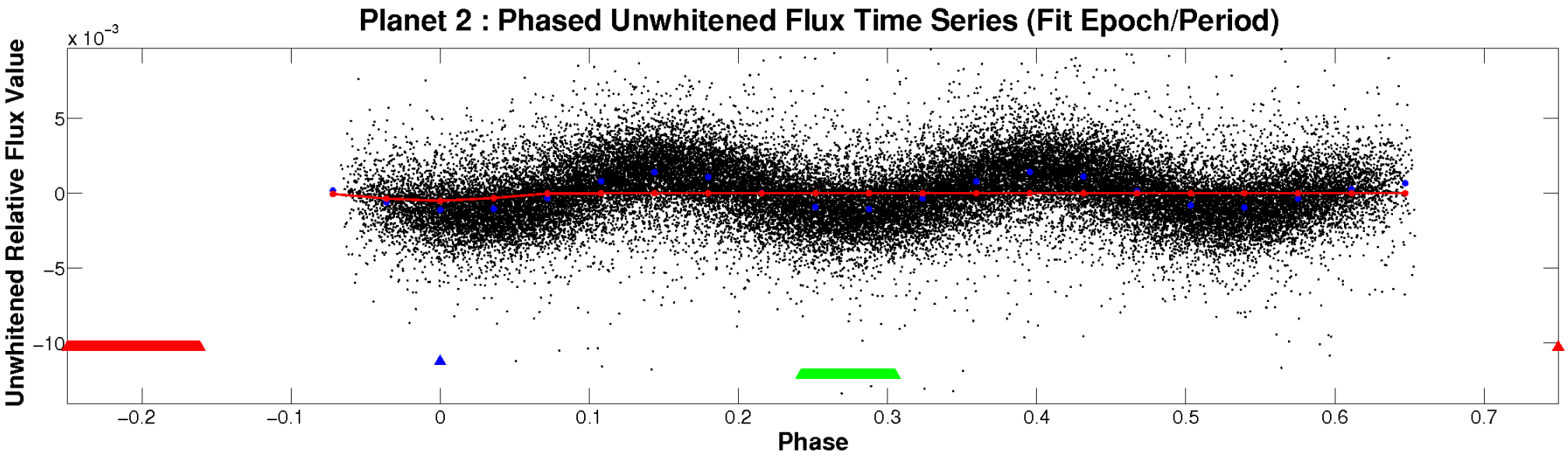
DV Odd/Even

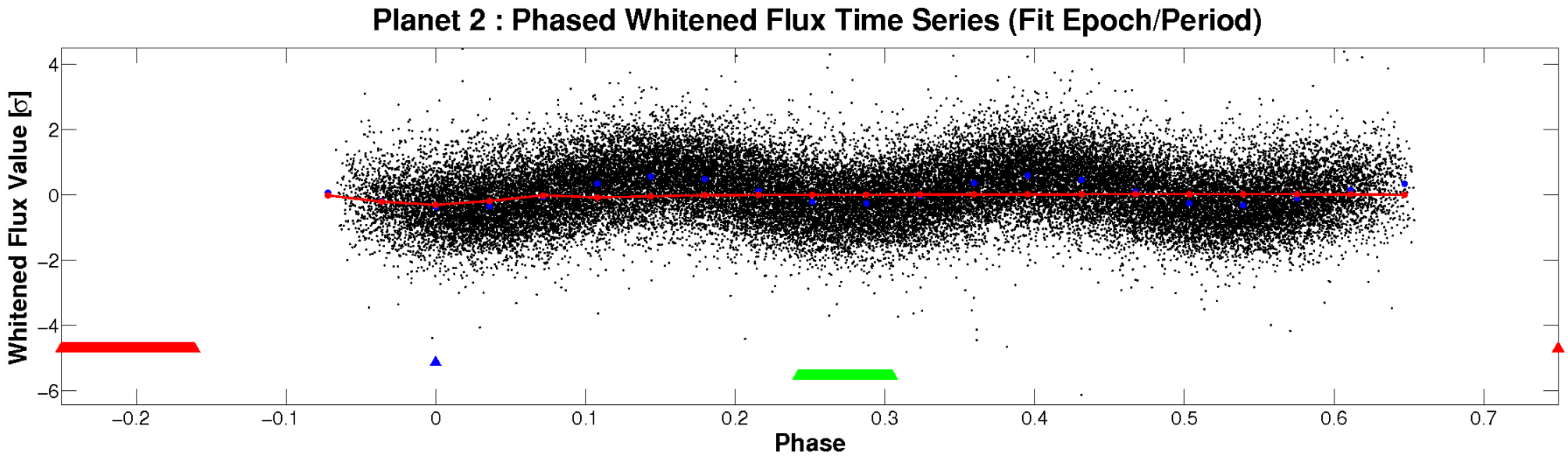

TCE 006464938-02
2.00e-02
1.50e-02
1.00e-02
5.00e-03
0.00e+00
-5.00e-03
-1.00e-02
-1.50e-02
Flux
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006464938-02
4.00e-02
3.00e-02
2.00e-02
1.00e-02
0.00e+00
-1.00e-02
-2.00e-02
-3.00e-02
-4.00e-02
Flux
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2
Phase
Odd
Even
Model Fit

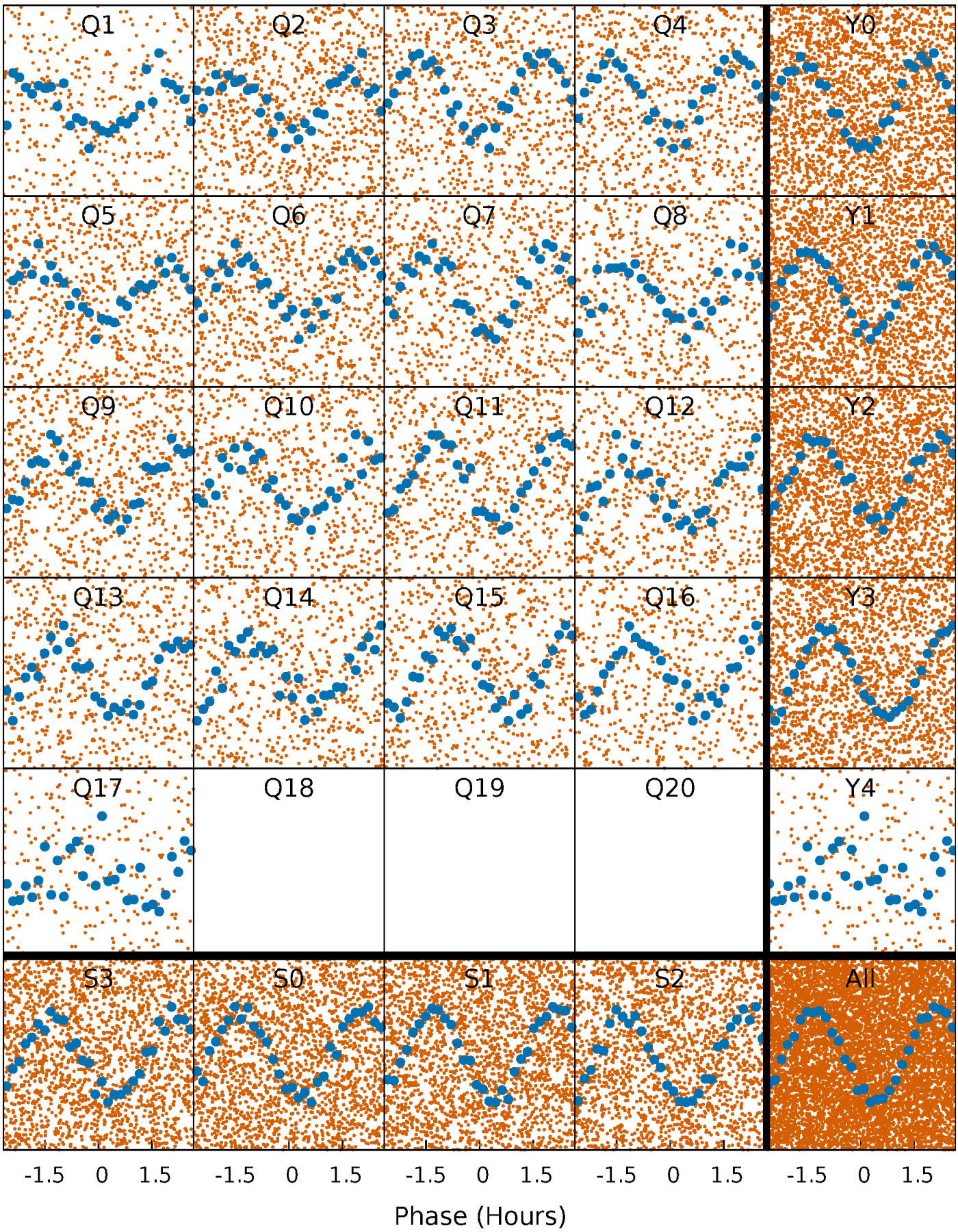
Non-Whitened Vs. Whitened Light Curve





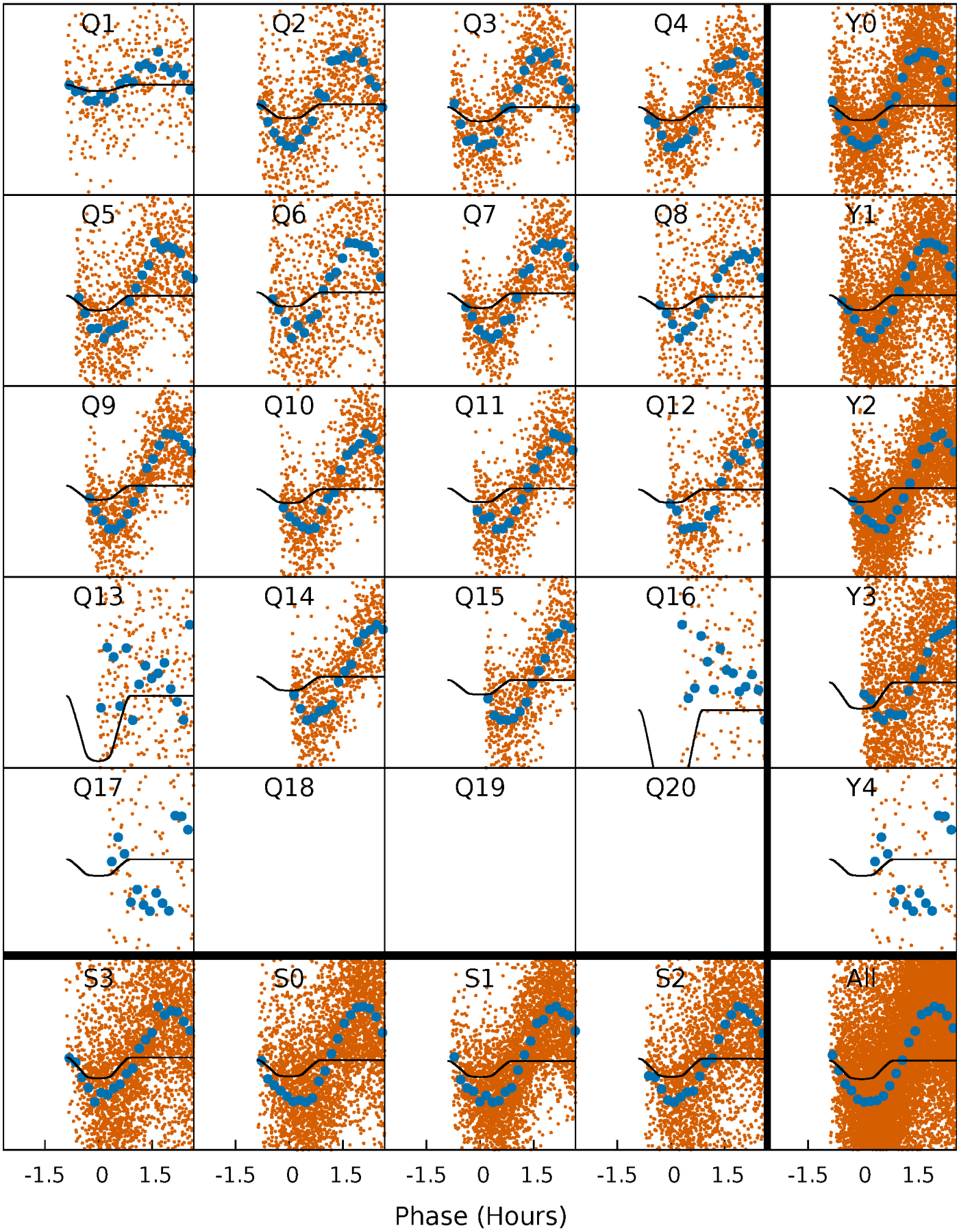
PDC Quarter-Phased Transit Curves

TCE 006464938-02 P= 0.568364 Days T_0=131.910945 (BKJD)



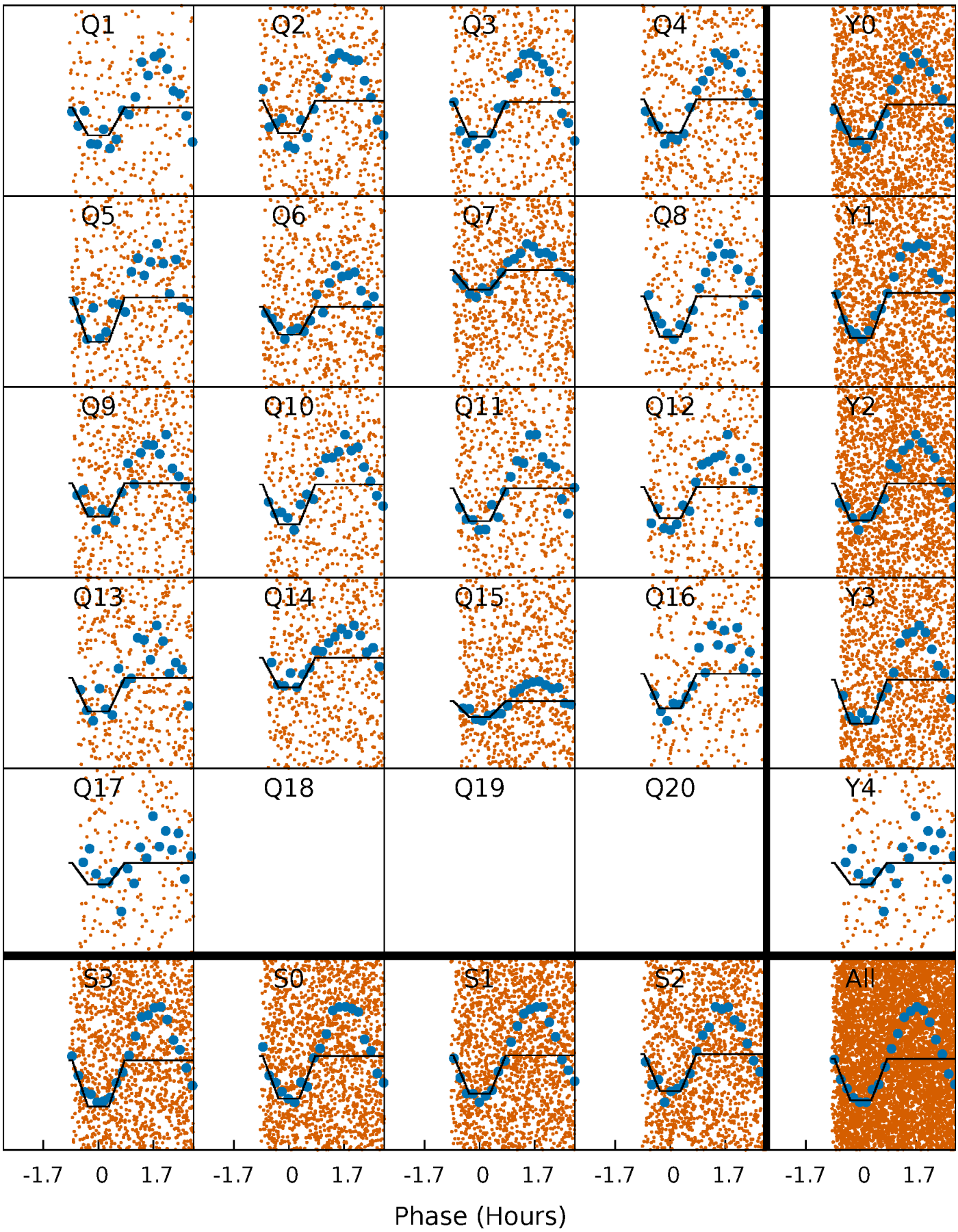
DV Quarter-Phased Transit Curves

TCE 006464938-02 P= 0.568364 Days T_0=131.910945 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

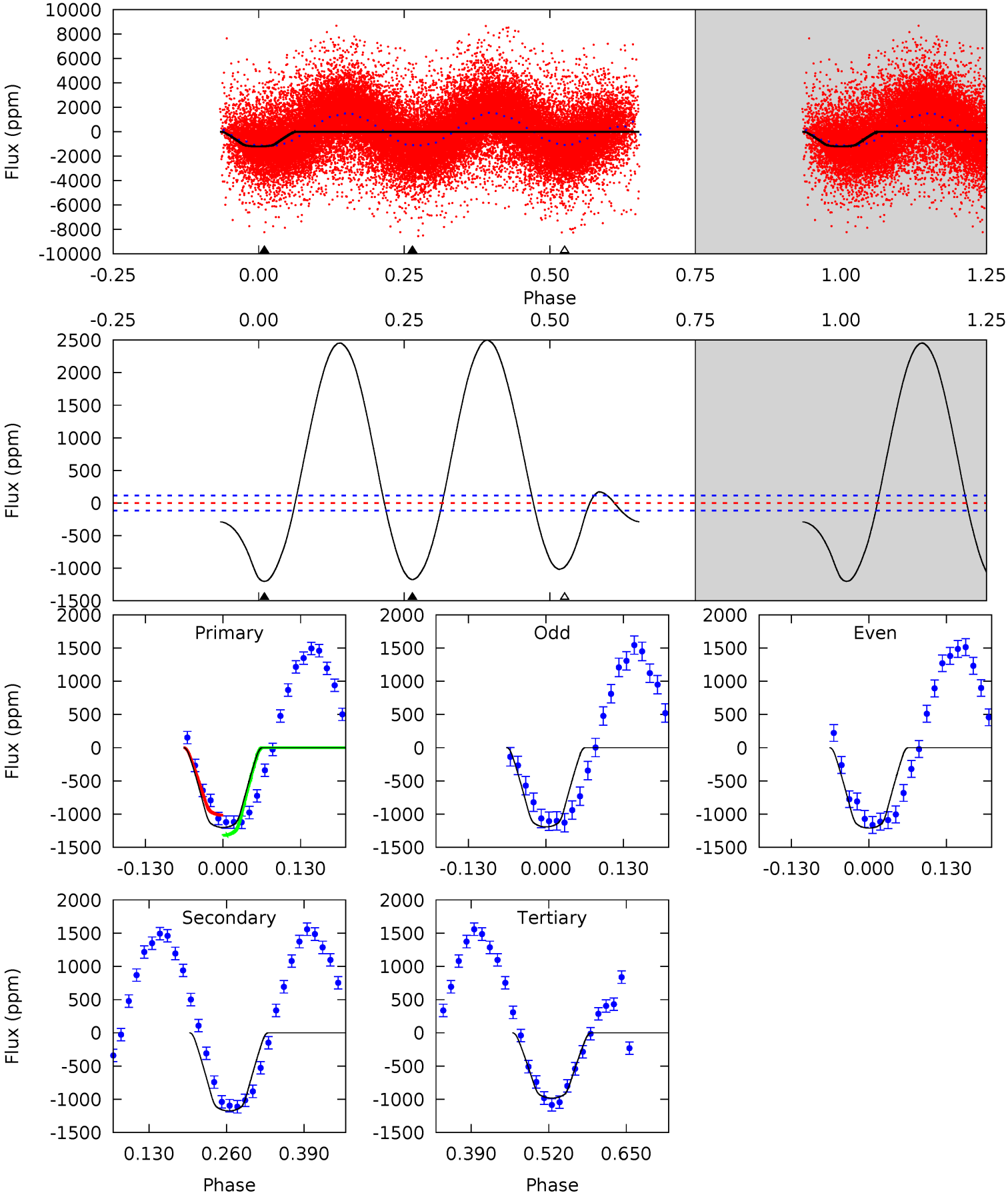
TCE 006464938-02 P= 0.568378 Days T_0=131.911256 (BKJD)



DV Model-Shift Uniqueness Test

006464938-02, P = 0.568364 Days, E = 131.342581 Days

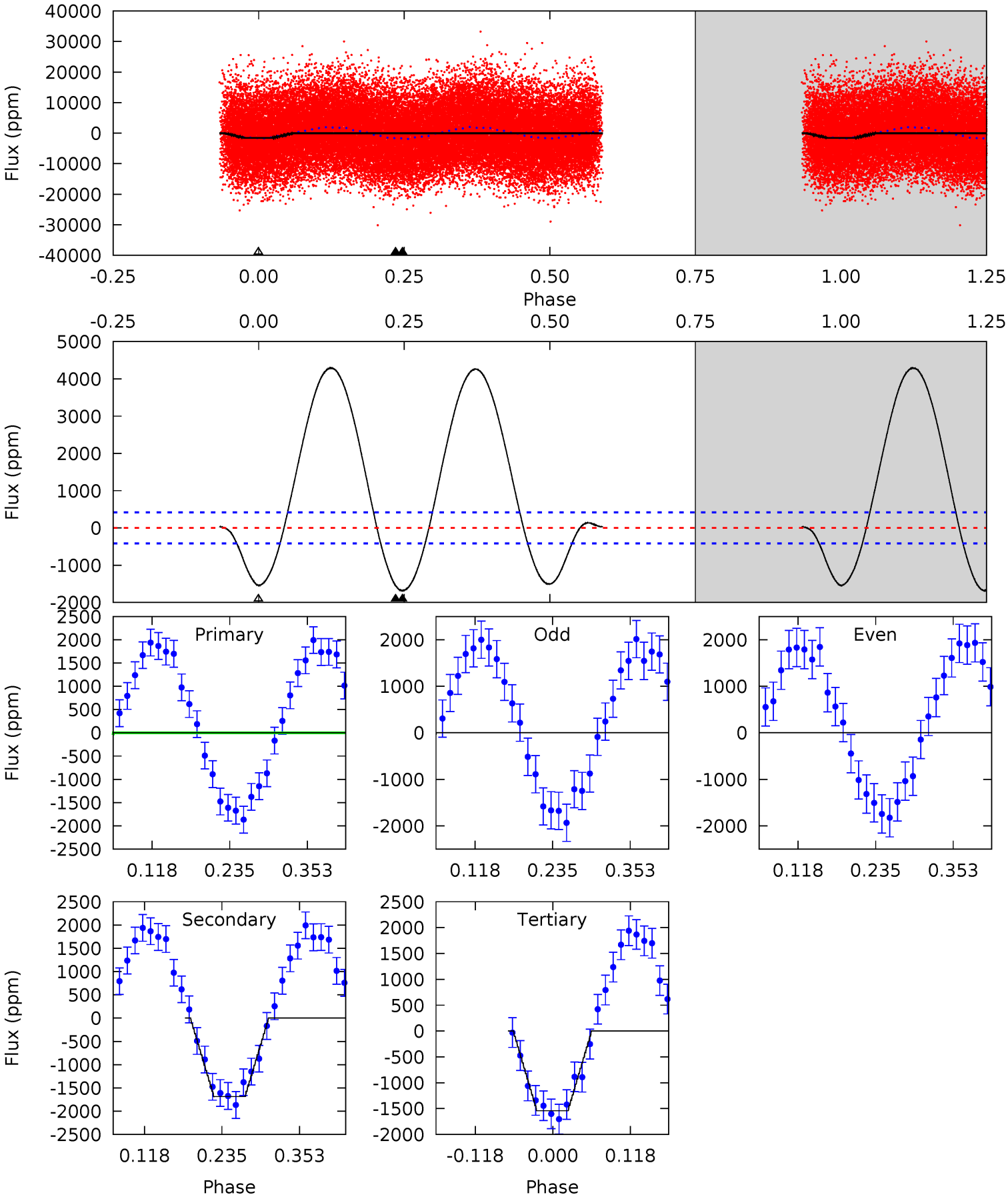
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
46.9	45.9	38.3	0	4.51	1.51	42.4	8.60	46.9	7.56	45.9	0.36	0.96	0.68	5.98



Alt Model-Shift Uniqueness Test

006464938-02, P = 0.568378 Days, E = 131.342878 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.7	18.2	16.7	0	4.53	1.56	21.0	0.06	16.7	1.55	18.2	0.10	0.91	0.72	0.03



Stellar Parameters For KIC 006464938

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7631^{+217}_{-325}	$3.338^{+0.825}_{-0.194}$	$-0.500^{+0.300}_{-0.250}$	$5.299^{+1.906}_{-3.540}$	$2.231^{+0.215}_{-0.858}$	$0.021^{+0.415}_{-0.010}$
	+3%/-4%	+25%/-6%	+60%/-50%	+36%/-67%	+10%/-38%	+1964%/-48%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006464938-02 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1175±26	$12.23^{+4.65}_{-4.64}$	7787^{+987}_{-1451}	8676^{+1745}_{-1415}	$1.292^{+2.002}_{-0.590}$
Alt.	-1685±92	$20.85^{+6.47}_{-7.38}$	7888^{+890}_{-1369}	6474^{+1020}_{-1422}	$0.629^{+0.769}_{-0.243}$

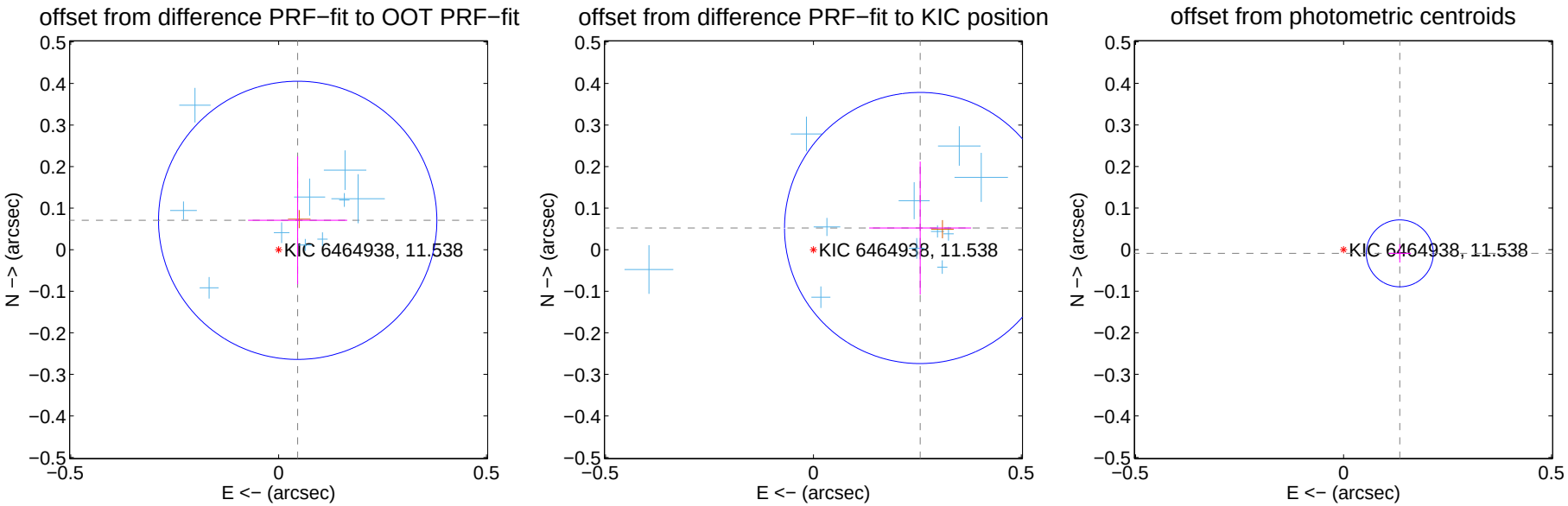
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

DV Centroid Data

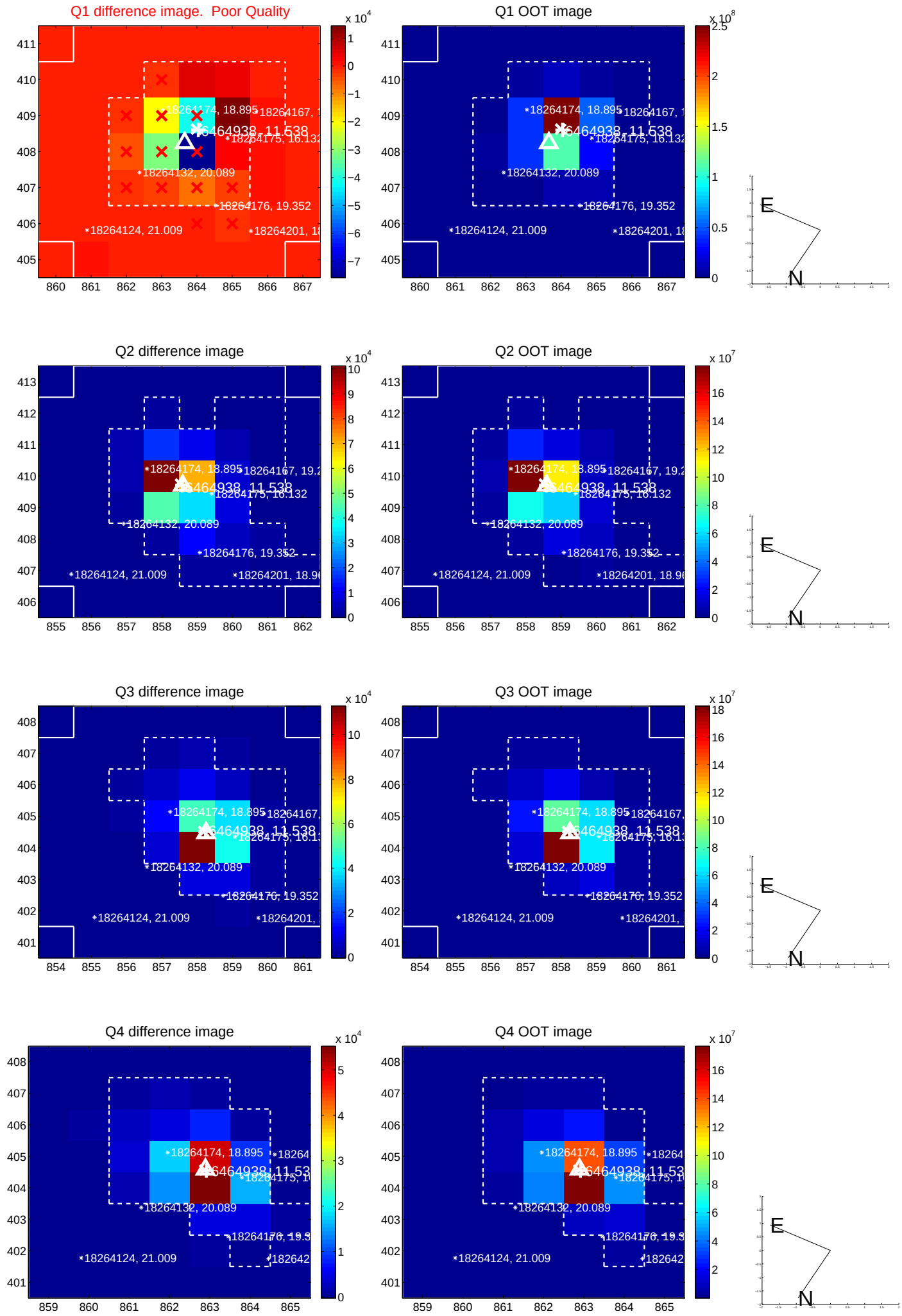
Supplemental centroid analysis for 006464938-02. Kepler magnitude: 11.54. Transit SNR 17.55
There are 15 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.084 ± 0.112	0.76	-0.046 ± 0.119	0.071 ± 0.154
PRF-fit source offset from KIC position	0.262 ± 0.109	2.41	-0.257 ± 0.123	0.052 ± 0.160
photometric centroid source offset	0.14 ± 0.03	5.05	-0.14 ± 0.03	-0.01 ± 0.02

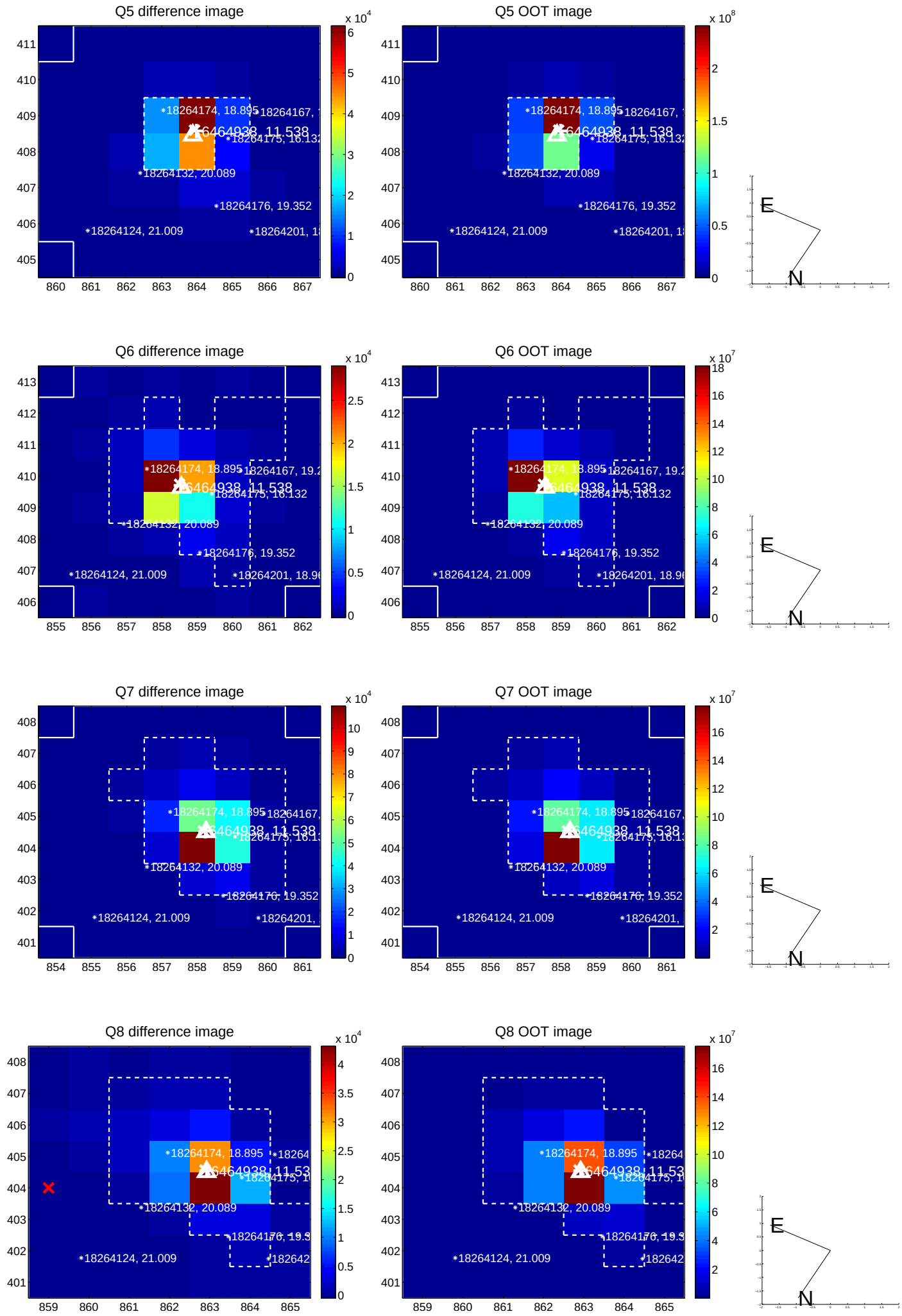


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs $> 15,000,000$ are from the UKIRT catalog.

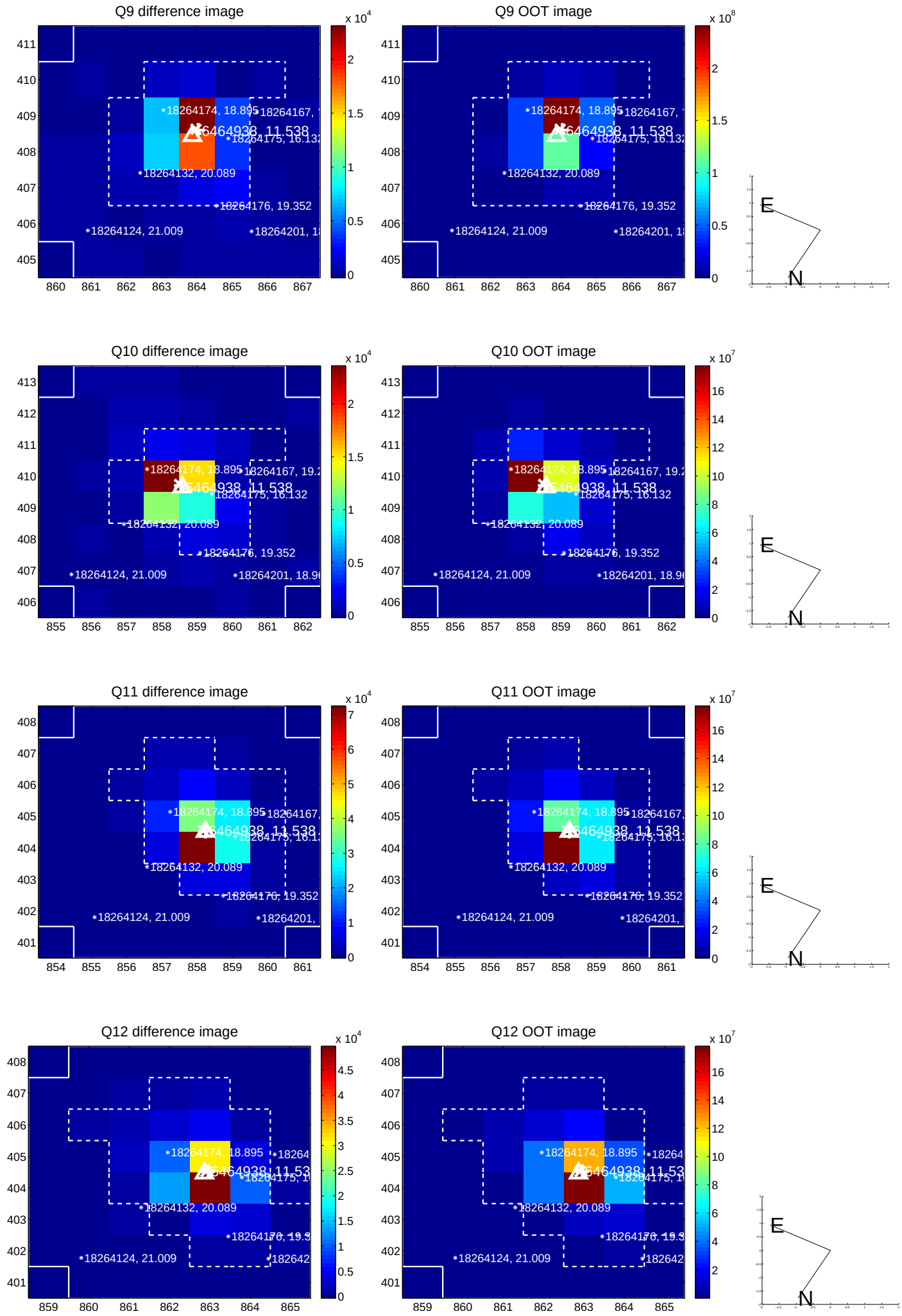
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



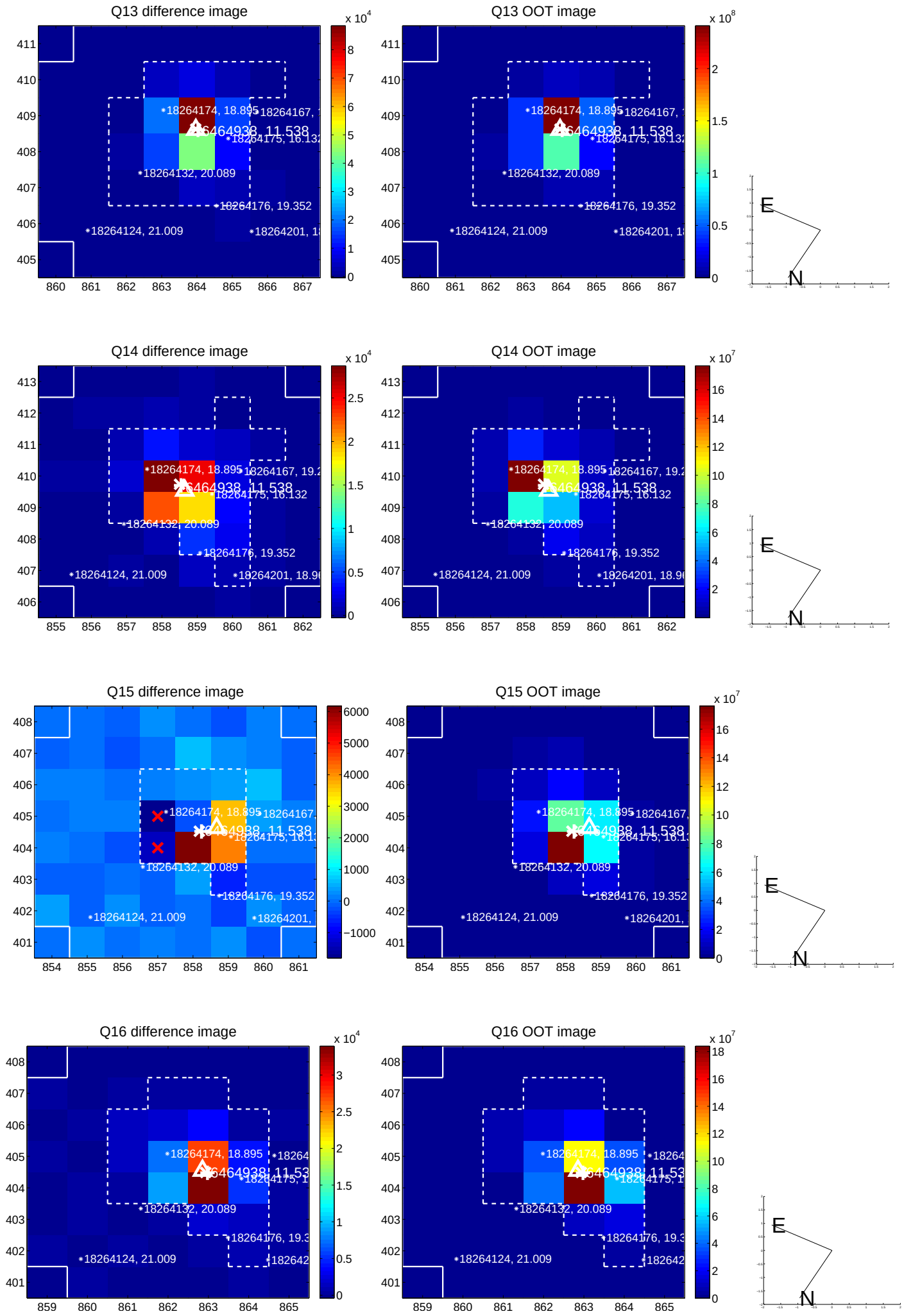
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



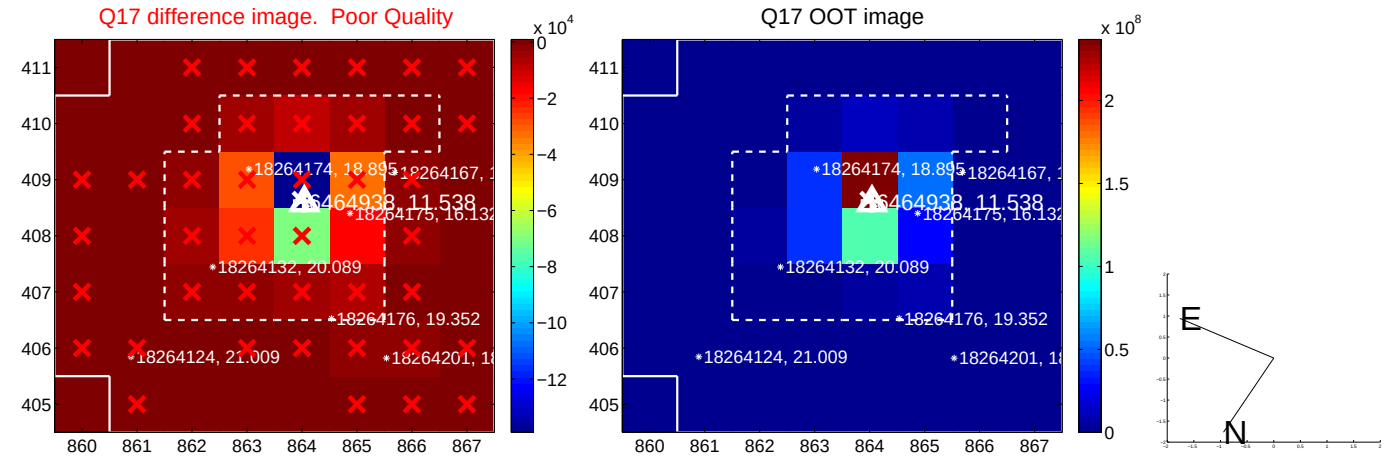
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

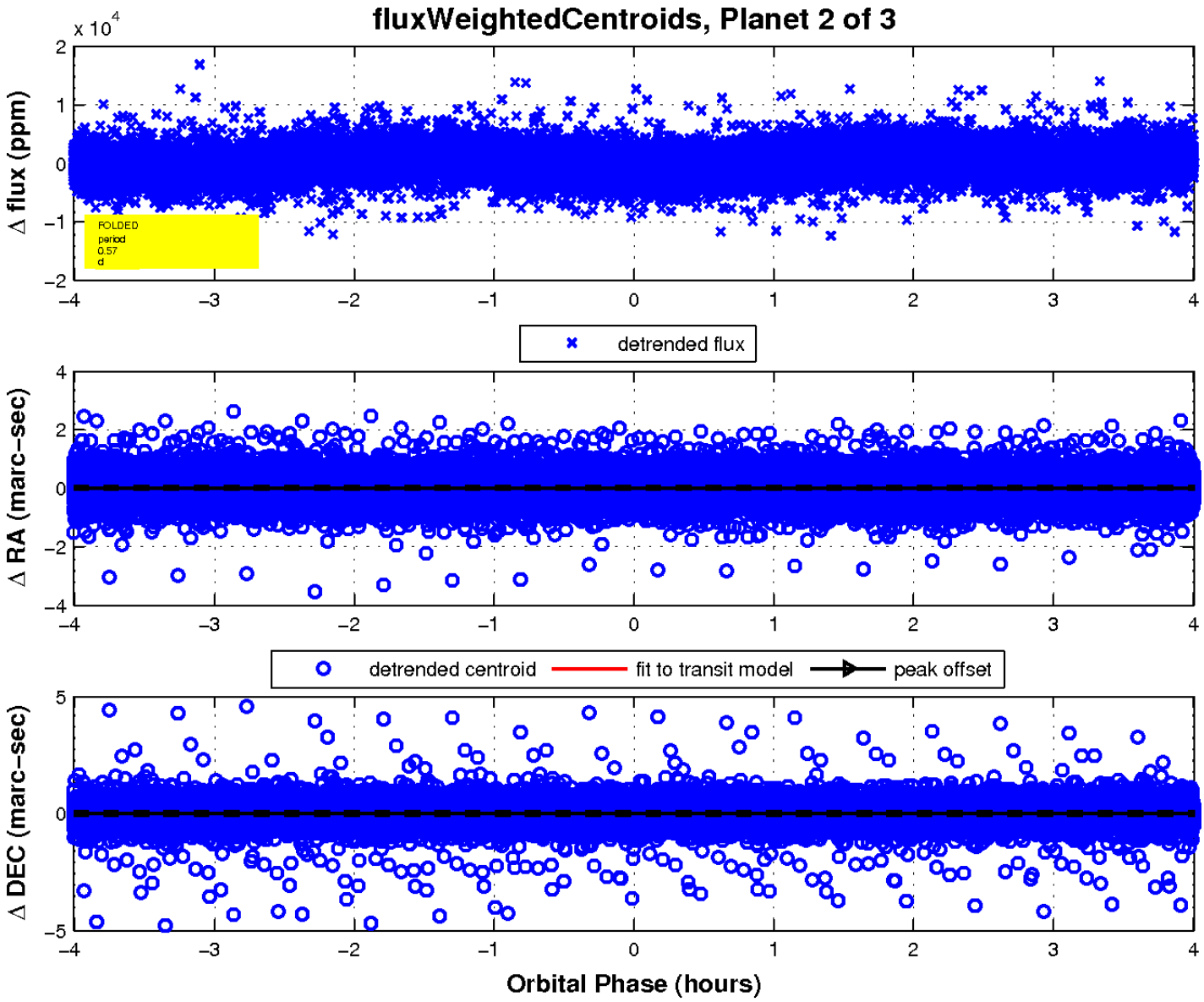


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

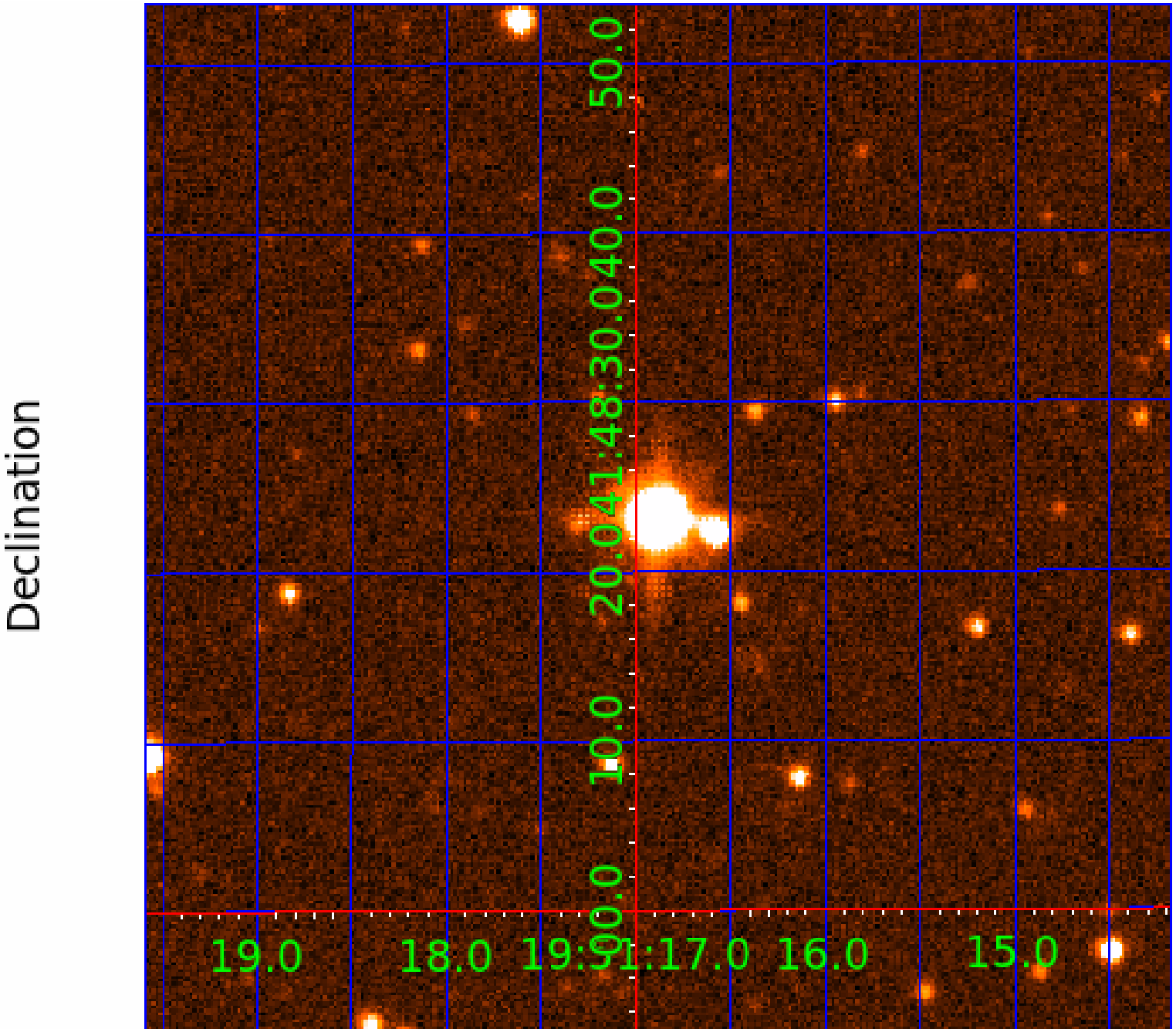


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.





UKIRT Image


Declination
50.0
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20.041:48:30.0
10.0
00.0
19.0
18.0
19:51:17.0
16.0
15.0

KIC 006464938

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	$R_\star$ ($R_\odot$)	$T_\star$ (K)	R_p ($R_\oplus$)	S_p ($S_\oplus$)
006464938-01	OBS	No	0.568384	131.768636	313.0	1.224	13.5	13.7	5.30	7631	9.74	0.00
006464938-02	OBS	No	0.568364	131.910945	503.7	1.336	16.0	17.5	5.30	7631	13.95	0.00
006464938-03	OBS	No	0.568378	132.048494	153.2	1.500	12.4	-1.0	5.30	7631	6.63	277012.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006464938-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
006464938-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
006464938-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

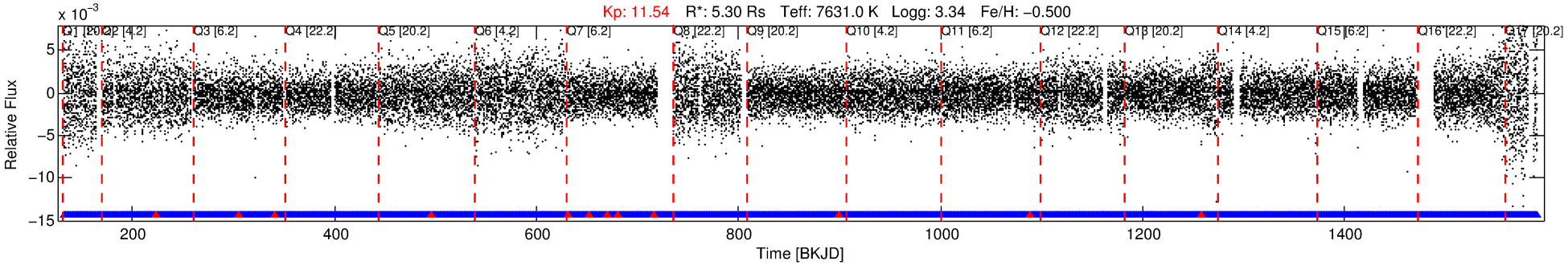
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

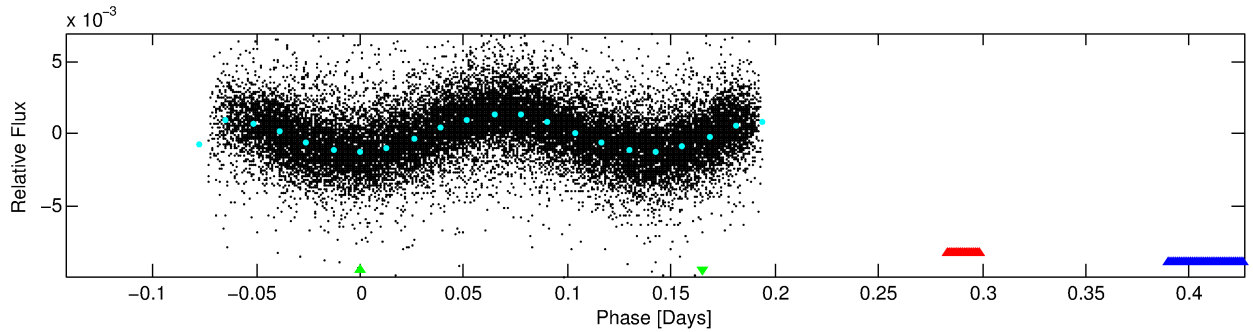
Ephemeris Match Information For 006464938-03

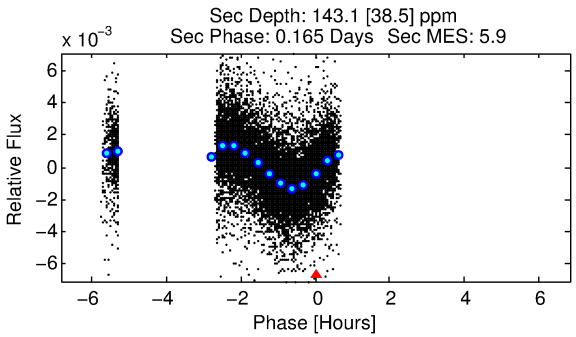
No Significant Match Found

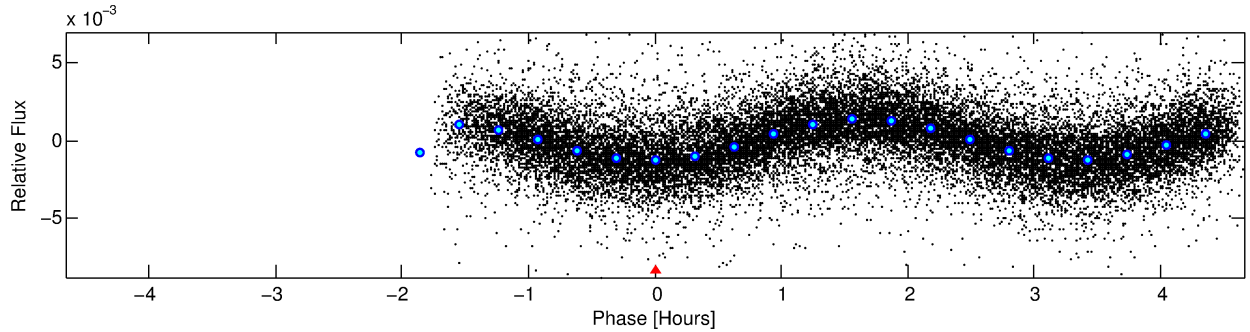
DV One-Page Summary

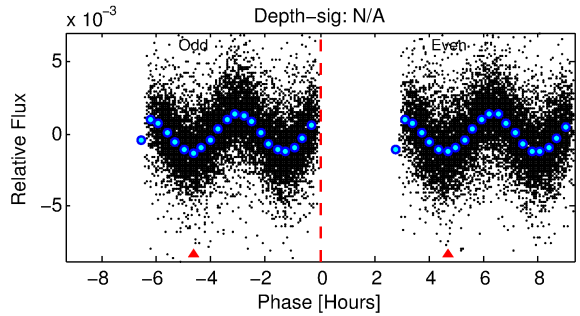
KIC: 6464938 Candidate: 3 of 3 Period: 0.568 d

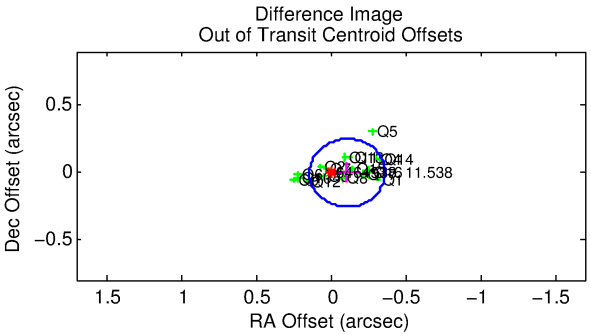












TPS TCE Results:

Period = 0.56838 d
Epoch = 132.0485 BKJD

DV fit results are unavailable

DV Diagnostic Results:

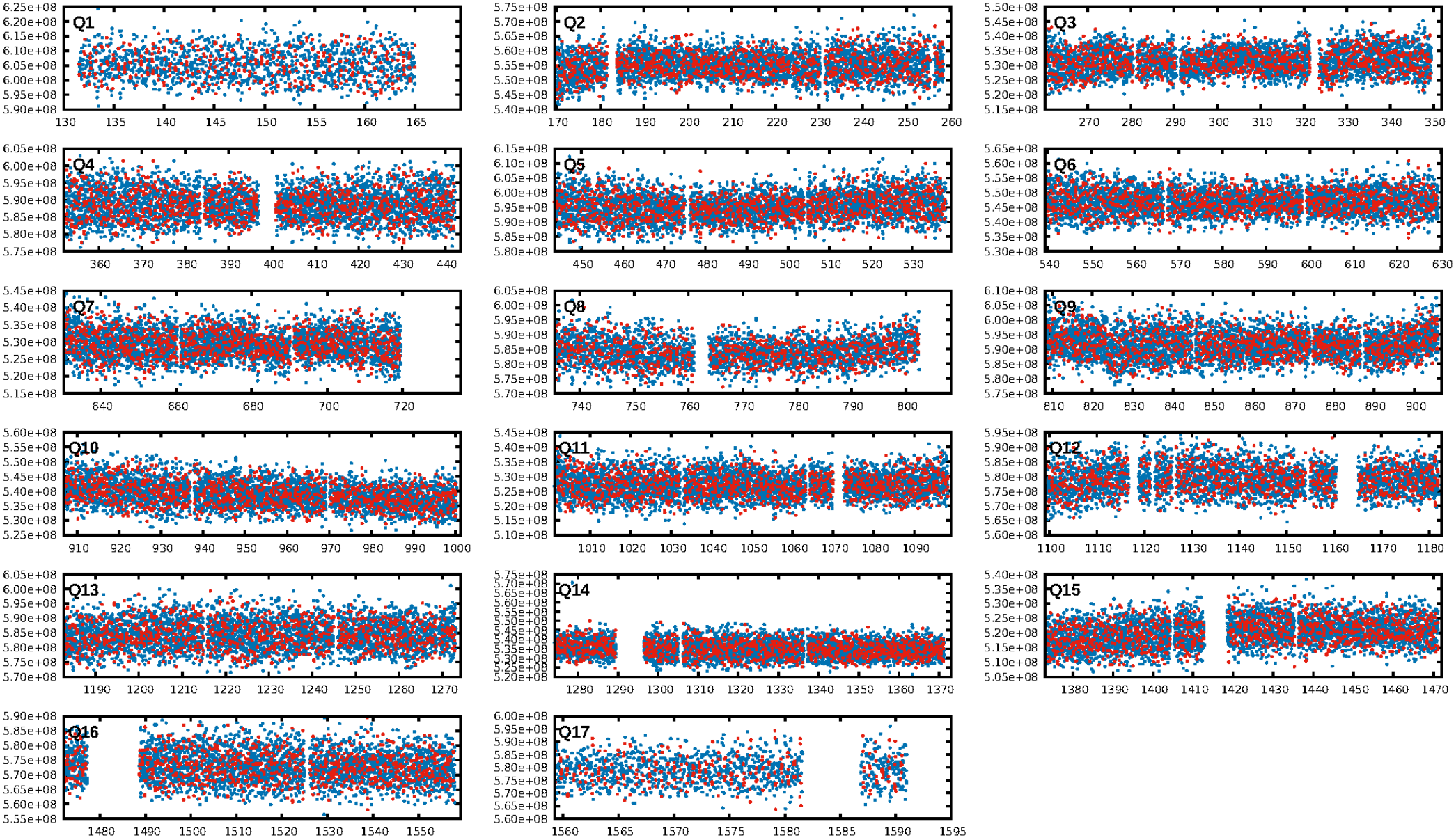
ShortPeriod−sig: 0.0% [0.00σ]
LongPeriod−sig: 0.0% [0.00σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: N/A
RollingBand−fgt: 0.99 [2235/2248]
GhostDiagnostic−chr: 0.4914

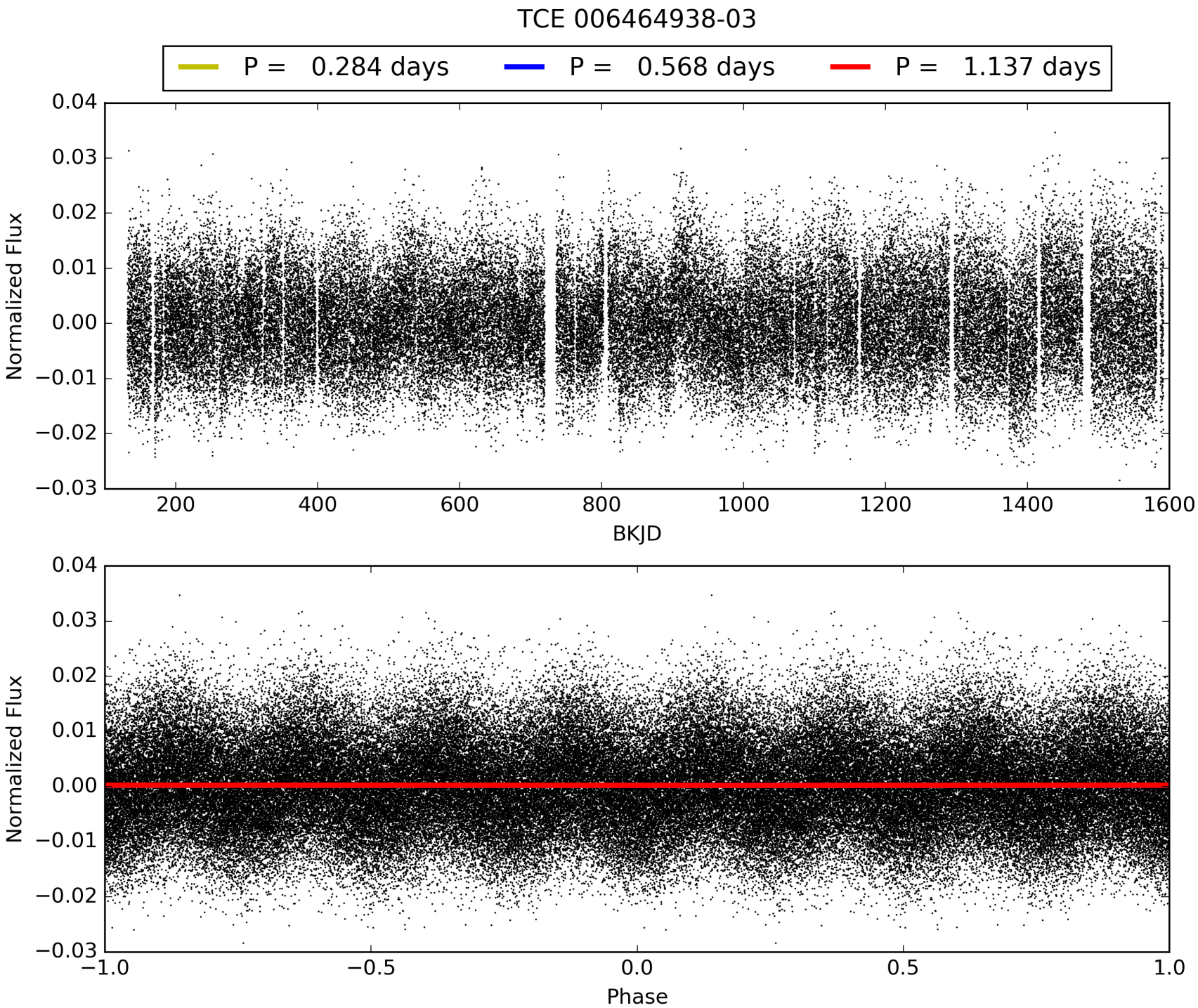
Centroid−sig: 0.0%
Centroid−so: 0.114 arcsec [15.49σ]
OotOffset−rm: 0.111 arcsec [1.32σ]
KicOffset−rm: 0.338 arcsec [4.04σ]
OotOffset−st: 4/4/4/5 [17]
KicOffset−st: 4/4/4/5 [17]
DiffImageQuality−fgm: 0.94 [16/17]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 31−Jan−2016 06:07:54 Z

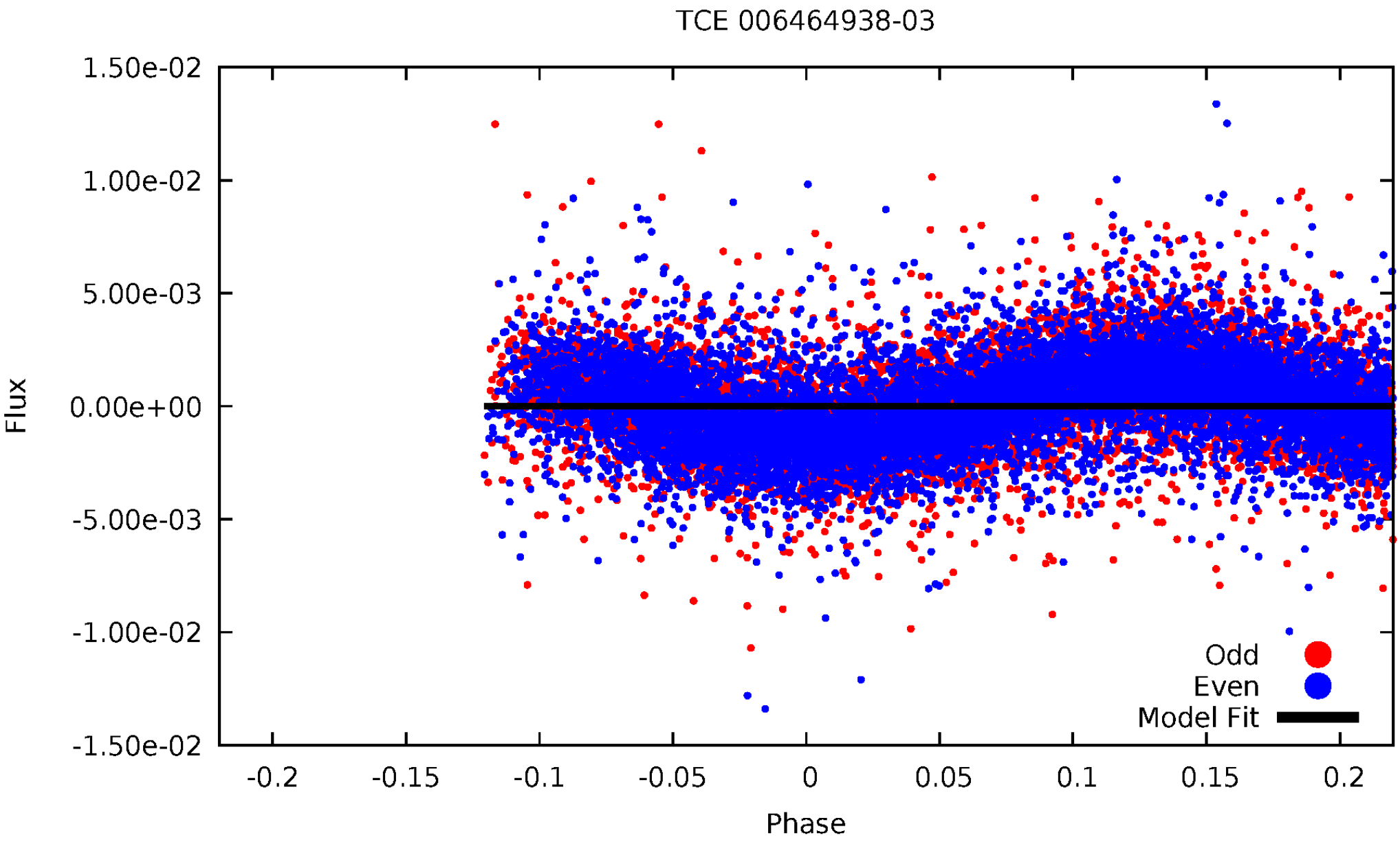
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006464938-03, PDC Light Curves




TCE 006464938-03
P = 0.284 days
P = 0.568 days
P = 1.137 days
Normalized Flux
BKJD
Normalized Flux
Phase

DV Odd/Even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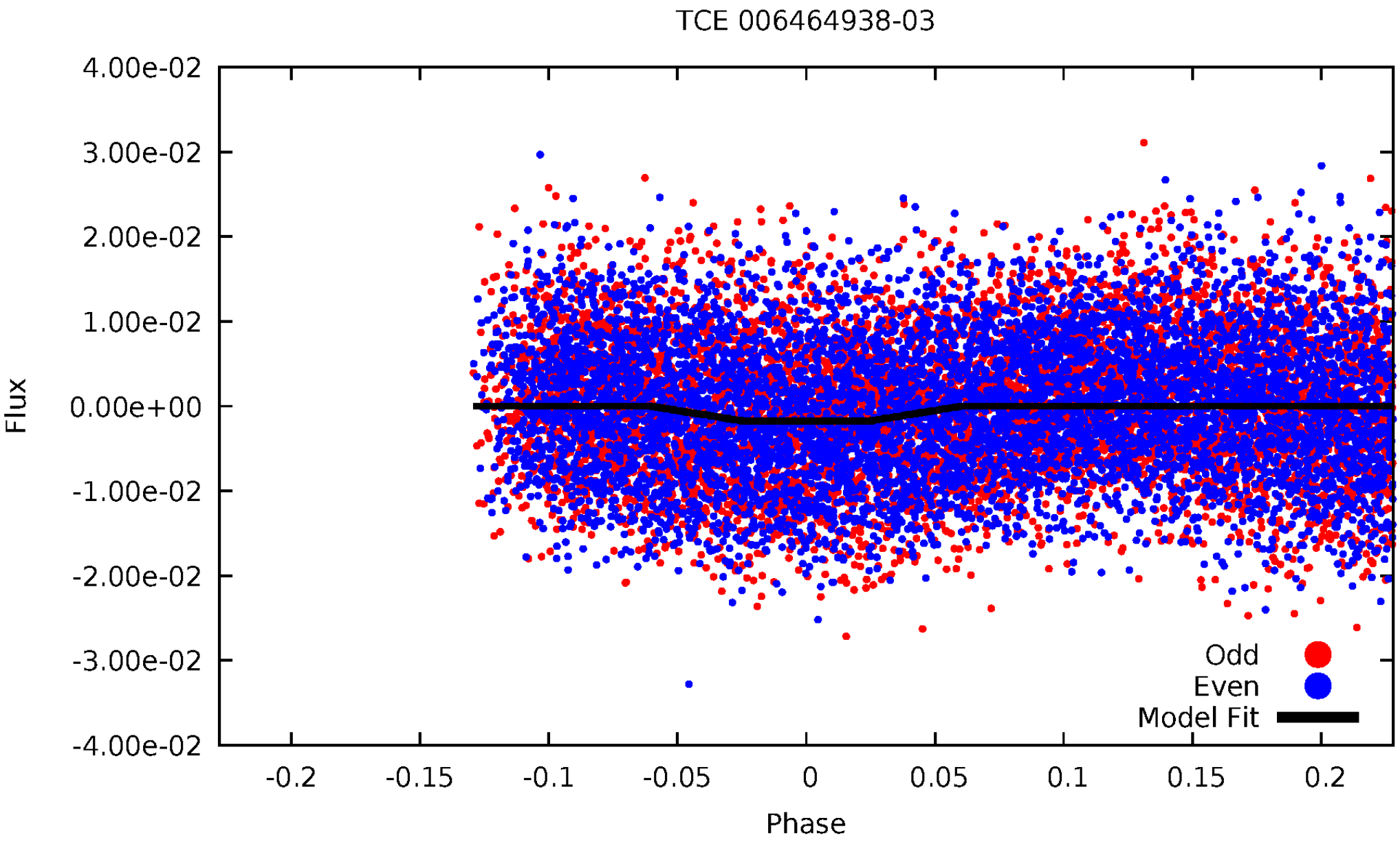
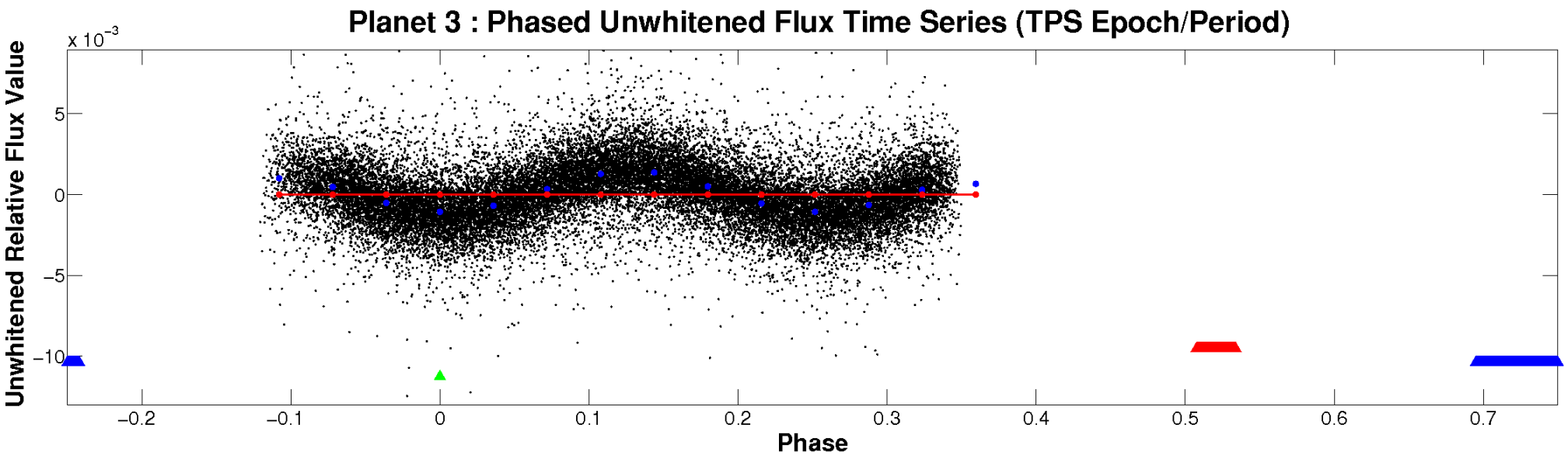
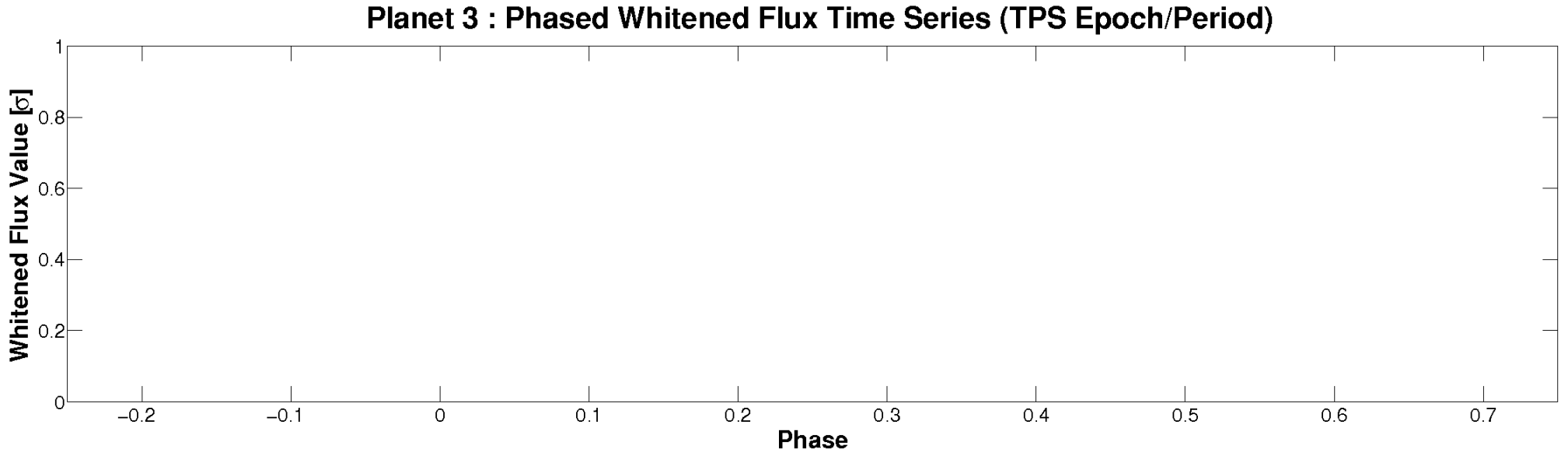
1.50e-02
1.00e-02
5.00e-03
0.00e+00
-5.00e-03
-1.00e-02
-1.50e-02
Flux
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006464938-03
4.00e-02
3.00e-02
2.00e-02
1.00e-02
0.00e+00
-1.00e-02
-2.00e-02
-3.00e-02
-4.00e-02
Flux
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2
Phase
Odd
Even
Model Fit

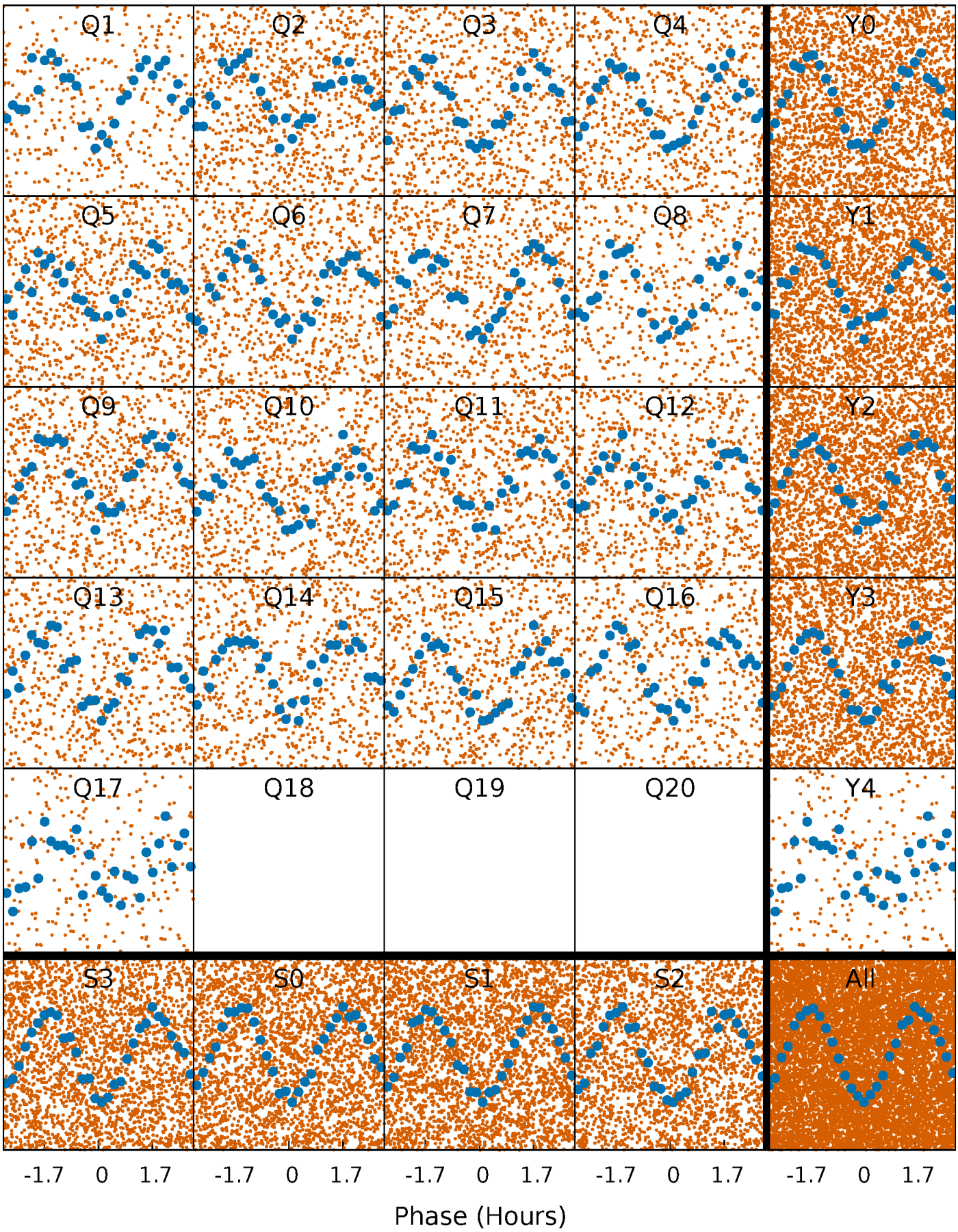
Non-Whitened Vs. Whitened Light Curve





PDC Quarter-Phased Transit Curves

TCE 006464938-03 P= 0.568378 Days T_0=132.048494 (BKJD)



DV Quarter-Phased Transit Curves

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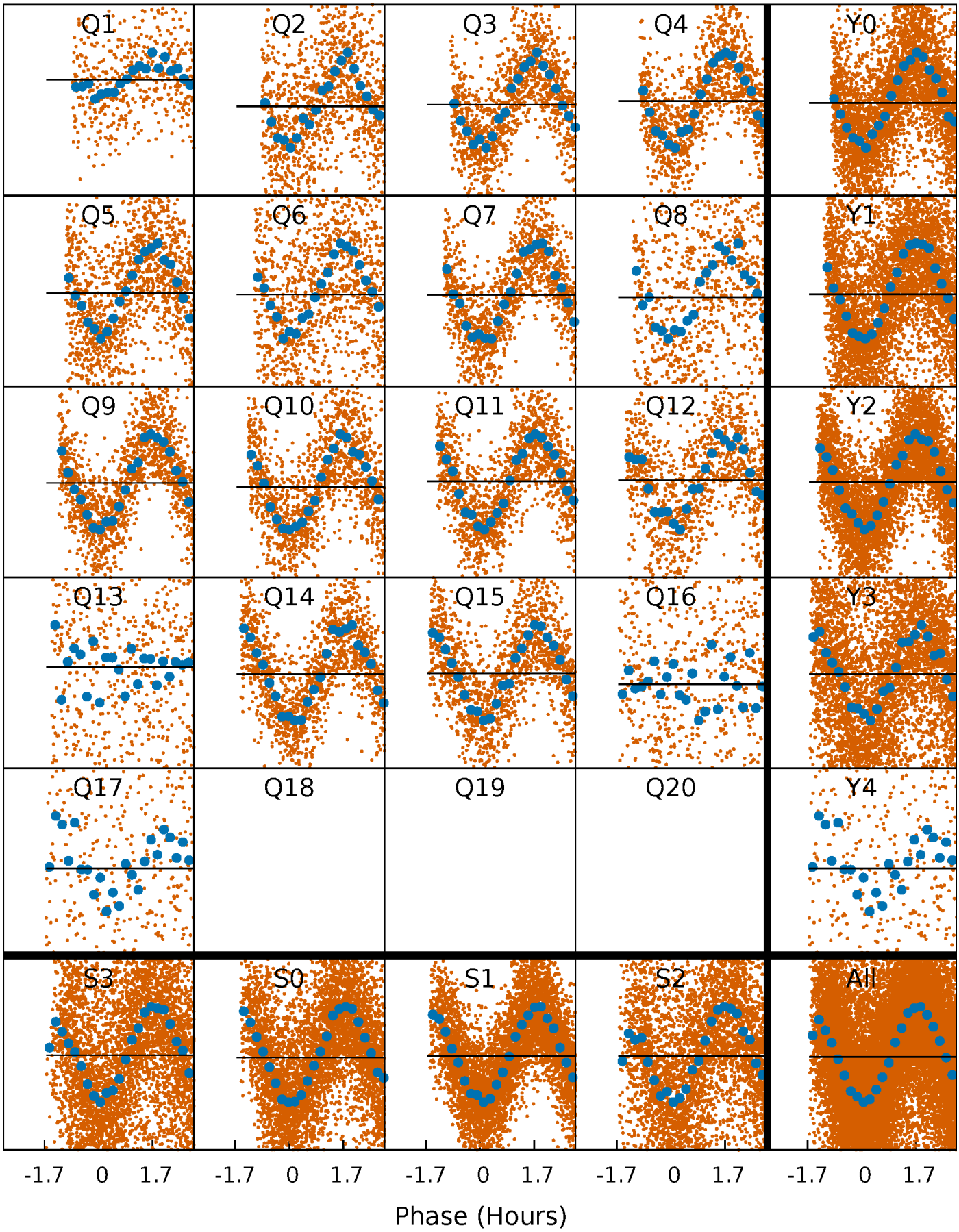
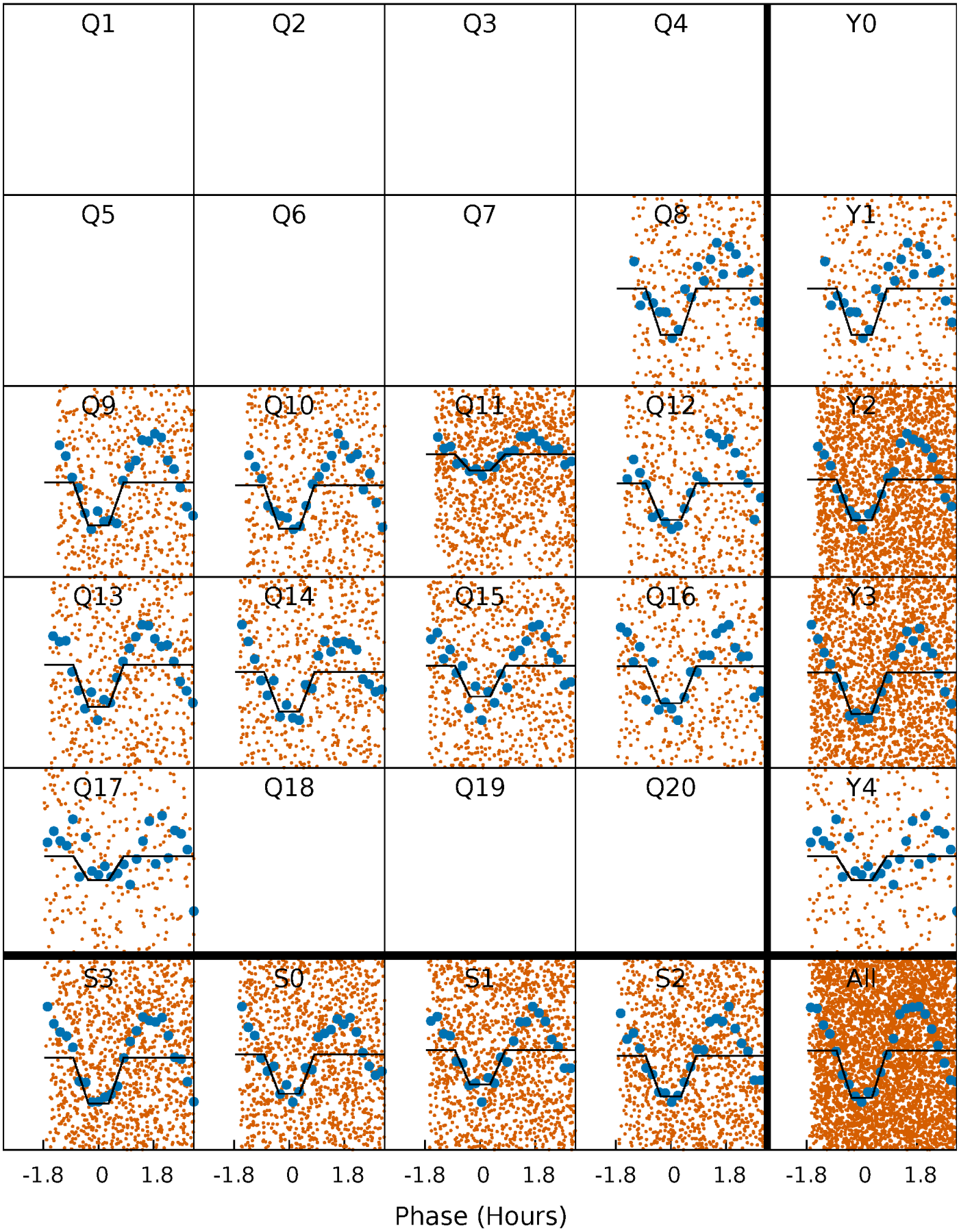


Alt. Detrend Quarter-Phased Transit Curves

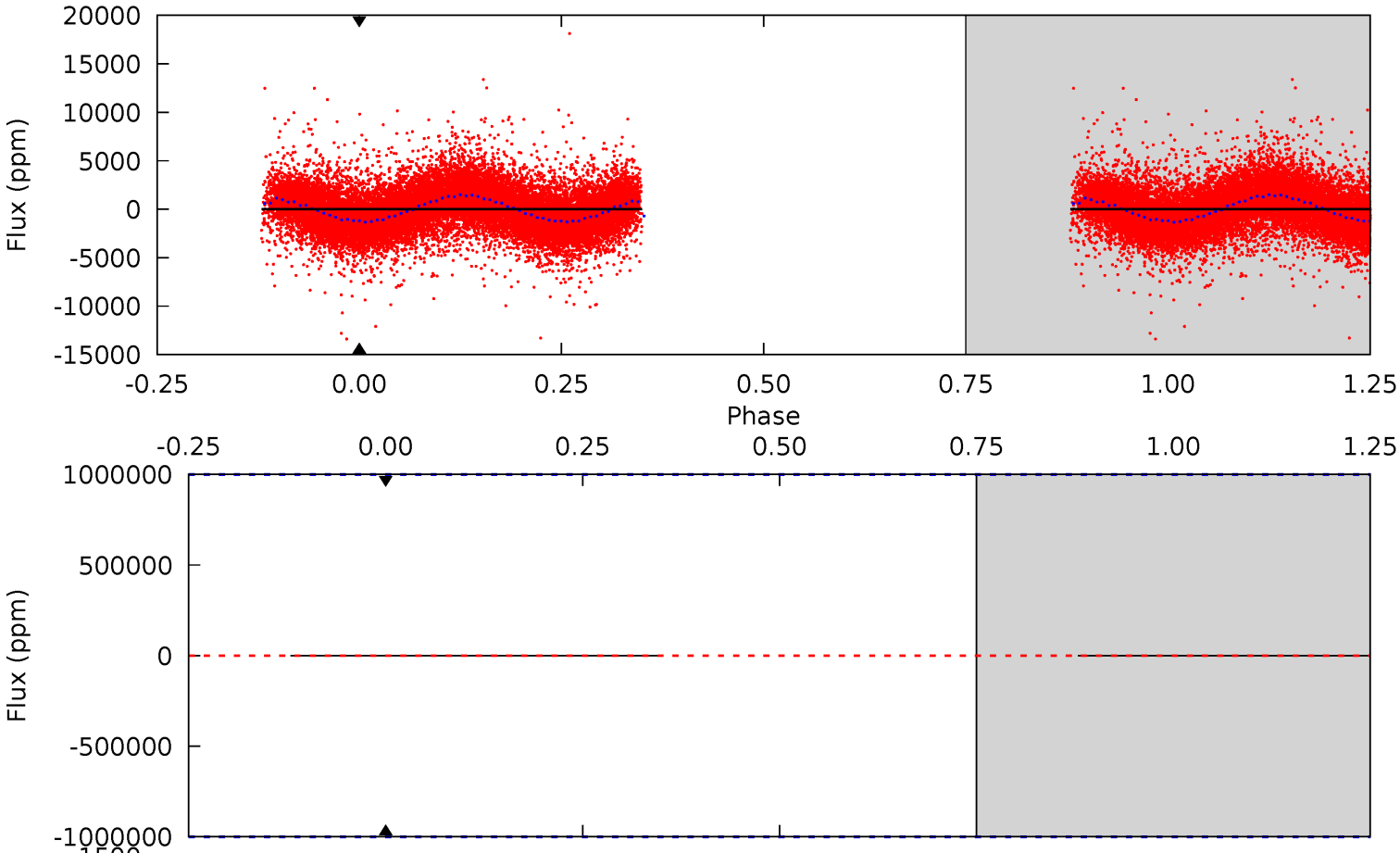
TCE 006464938-03 P= 0.568378 Days T_0=132.053390 (BKJD)

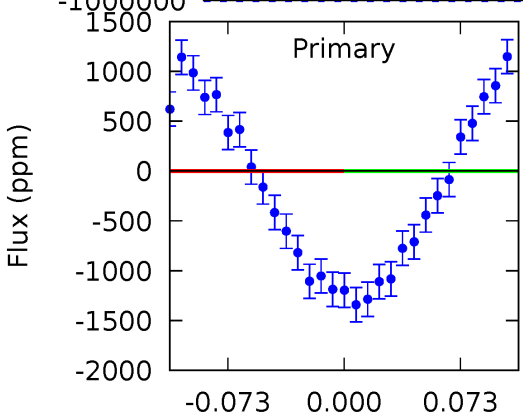


DV Model-Shift Uniqueness Test

006464938-03, P = 0.568378 Days, E = 131.480116 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0

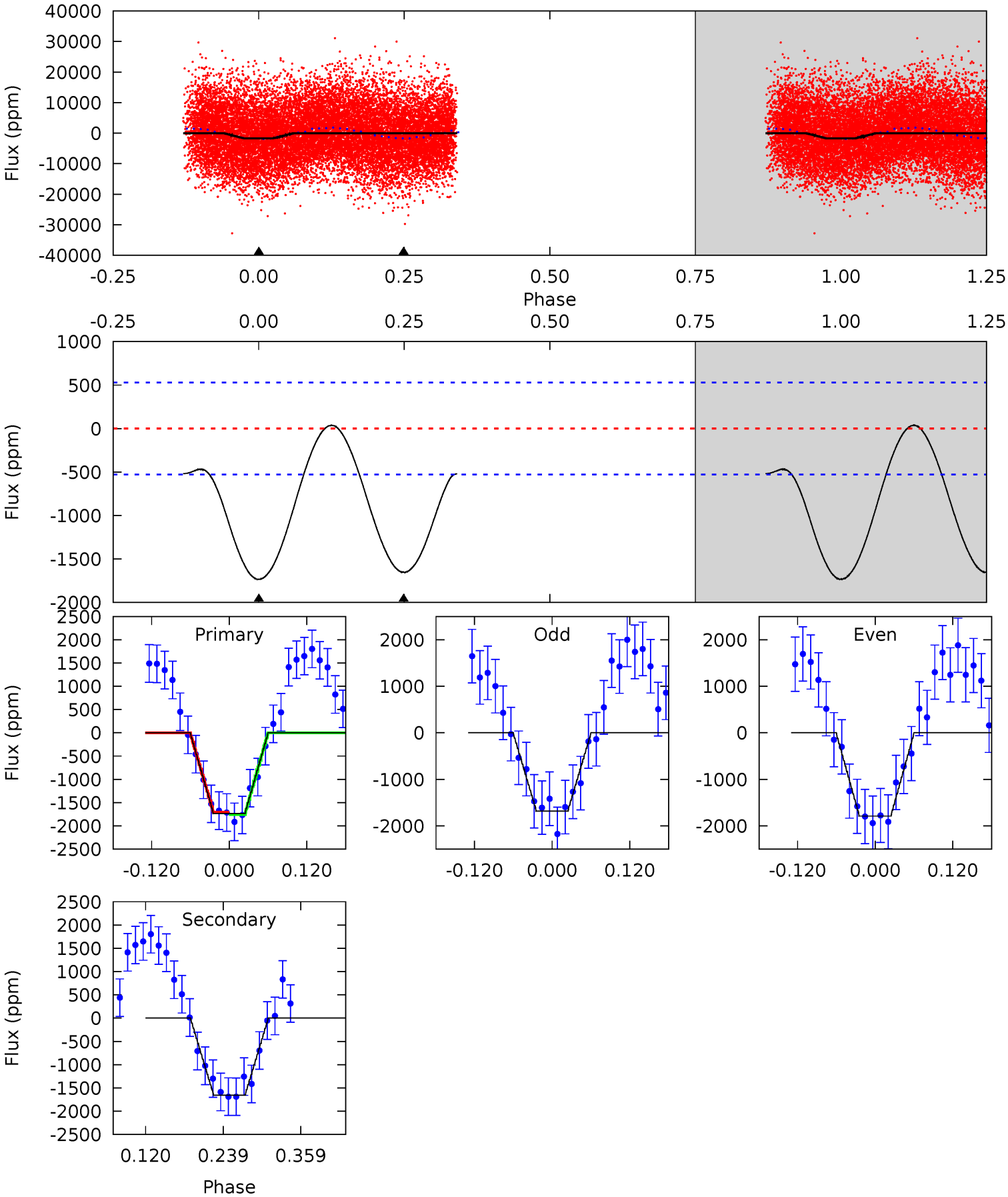




Alt Model-Shift Uniqueness Test

006464938-03, P = 0.568378 Days, E = 132.053390 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.8	14.2	0	0	4.53	1.56	1.67	14.8	14.8	14.2	14.2	0.47	1.03	0.02	0.19



Stellar Parameters For KIC 006464938

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7631^{+217}_{-325}	$3.338^{+0.825}_{-0.194}$	$-0.500^{+0.300}_{-0.250}$	$5.299^{+1.906}_{-3.540}$	$2.231^{+0.215}_{-0.858}$	$0.021^{+0.415}_{-0.010}$
	+3%/-4%	+25%/-6%	+60%/-50%	+36%/-67%	+10%/-38%	+1964%/-48%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006464938-03 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0±1000000	$33.25^{+47.90}_{-24.73}$	7857^{+907}_{-1484}	-6847^{+54777}_{-43163}	$-0.076^{+31.883}_{-34.001}$
Alt.	-1653±117	$40.80^{+40.08}_{-28.86}$	7888^{+843}_{-1370}	-4848^{+14301}_{-1647}	$0.159^{+1.782}_{-0.121}$

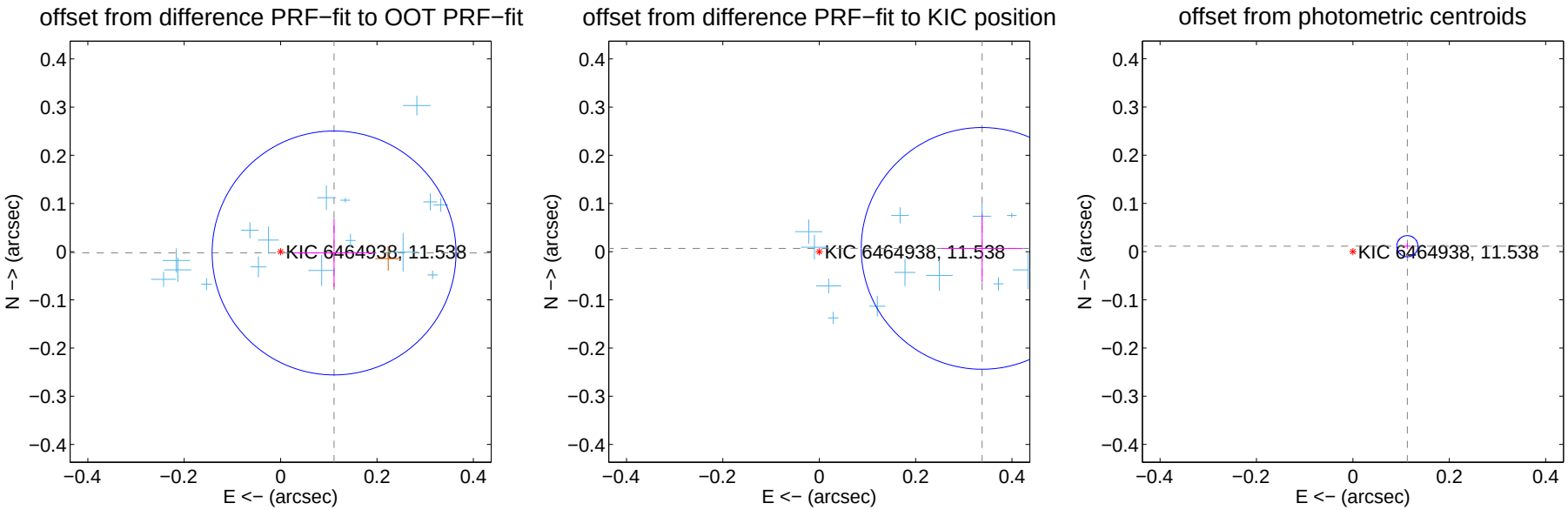
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

DV Centroid Data

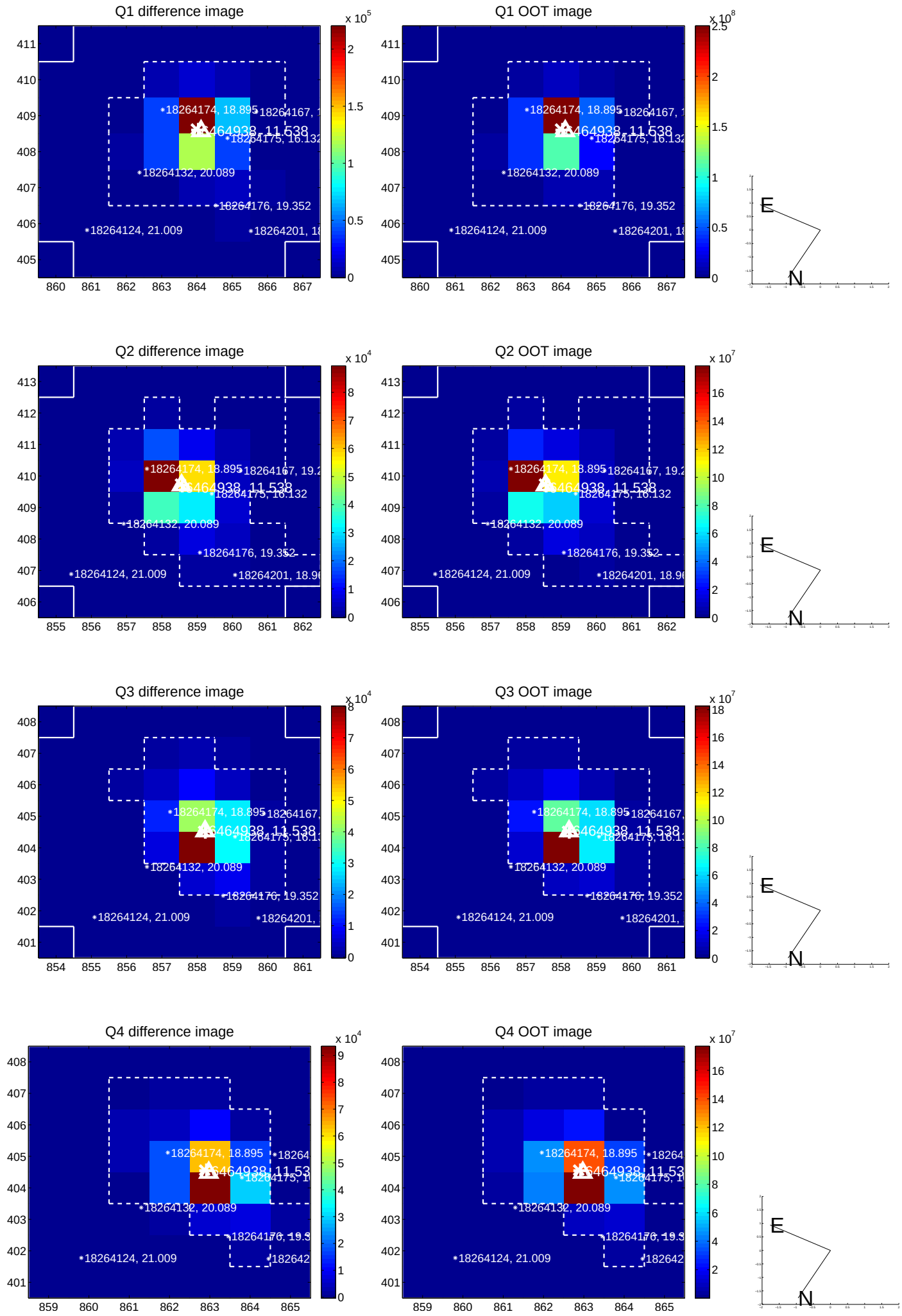
Supplemental centroid analysis for 006464938-03. Kepler magnitude: 11.54. Transit SNR -1.00
There are 16 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.111 ± 0.084	1.32	-0.111 ± 0.085	-0.003 ± 0.071
PRF-fit source offset from KIC position	0.338 ± 0.084	4.04	-0.338 ± 0.084	0.007 ± 0.071
photometric centroid source offset	0.11 ± 0.01	15.49	-0.11 ± 0.01	0.01 ± 0.01

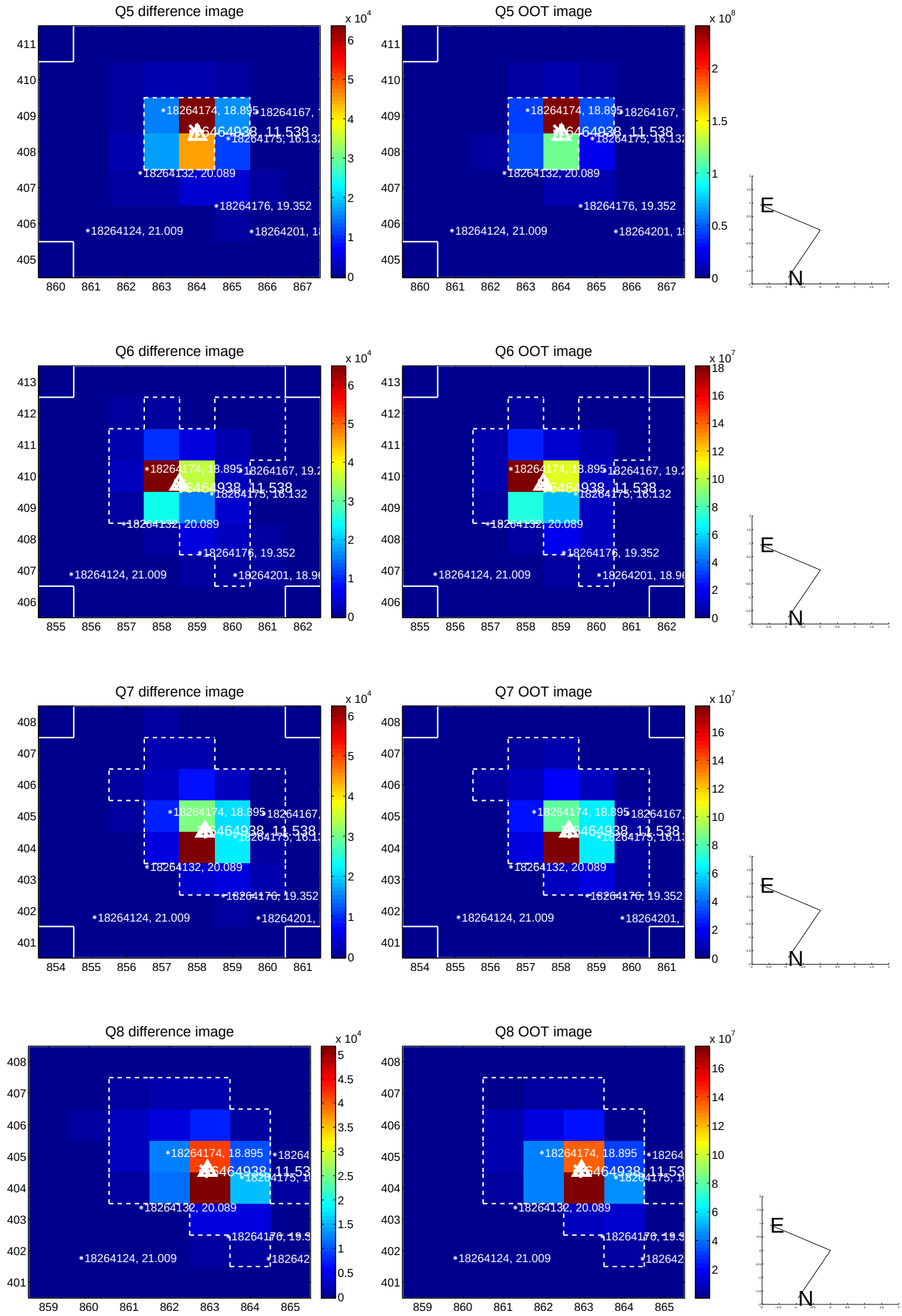


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs $> 15,000,000$ are from the UKIRT catalog.

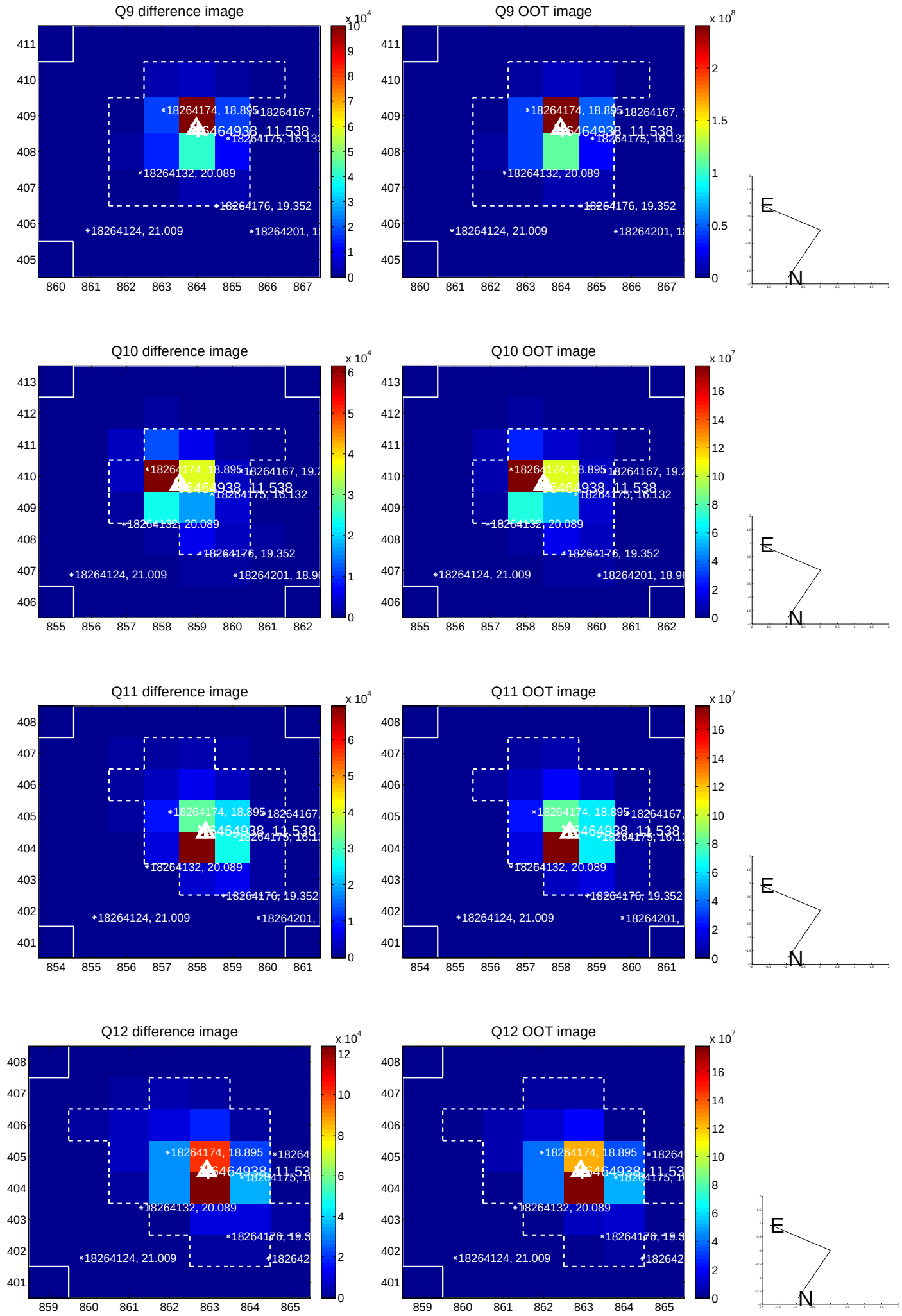
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



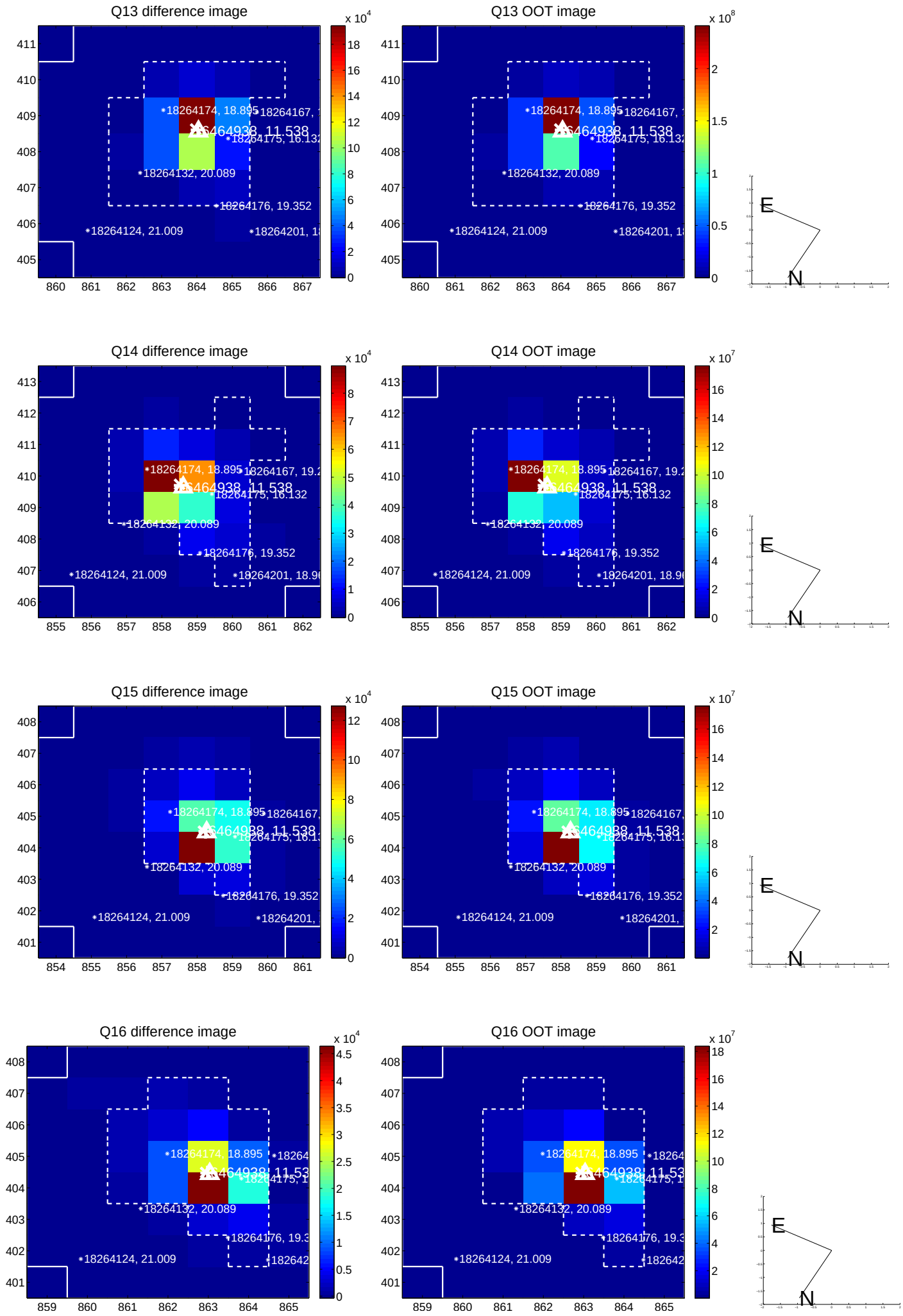
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



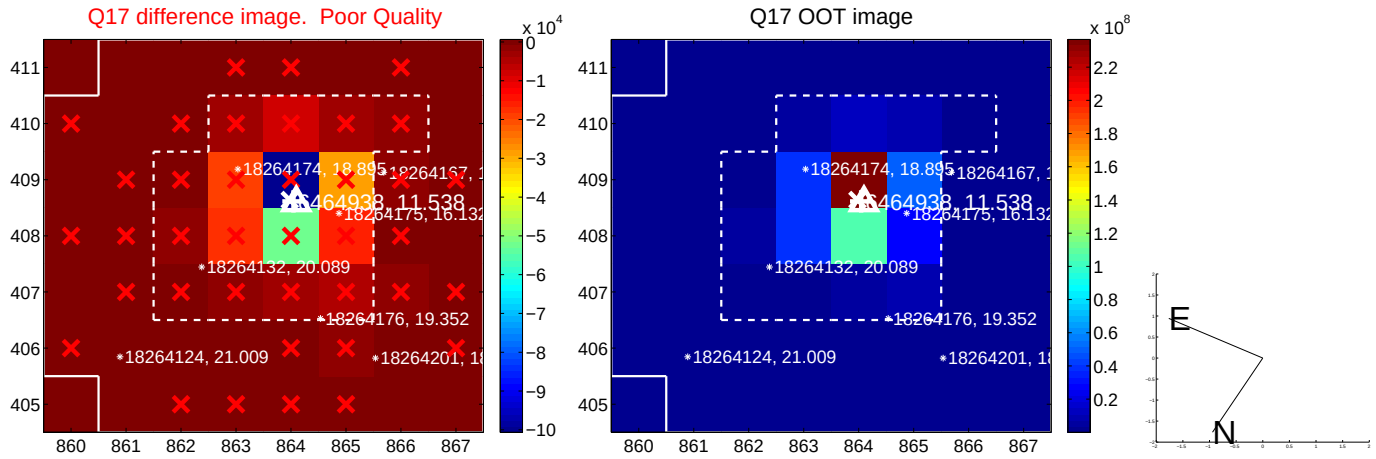
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

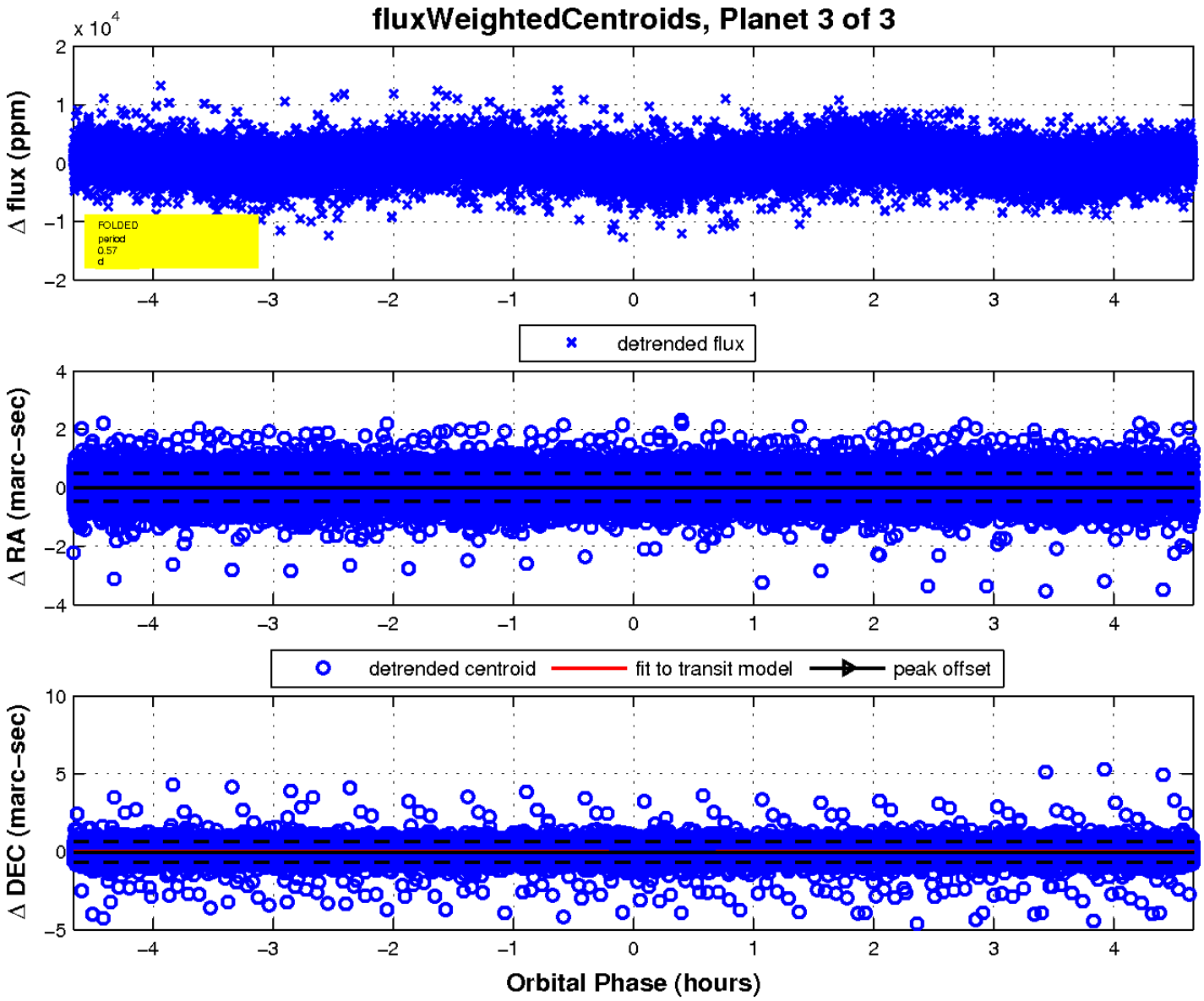


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

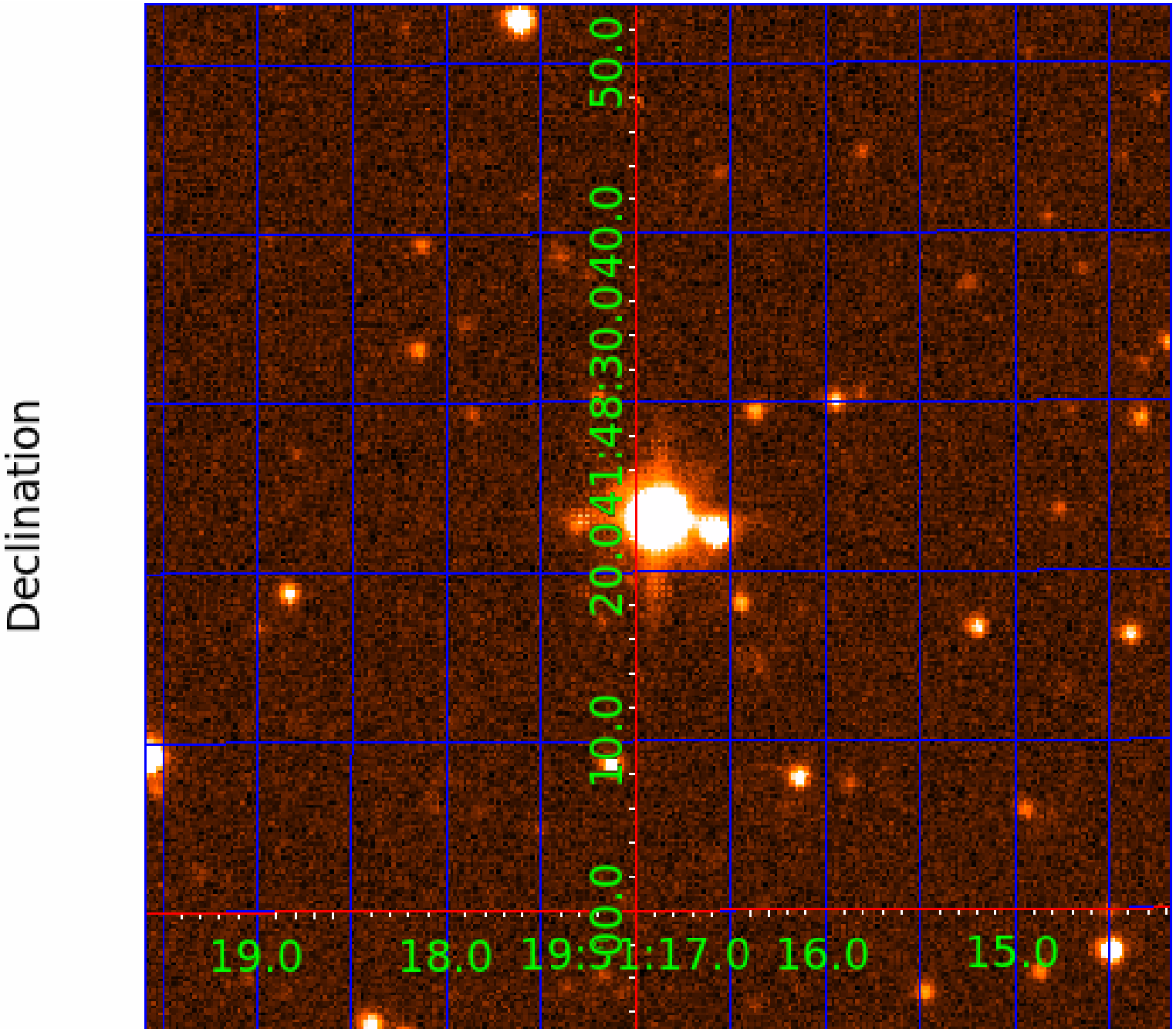


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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